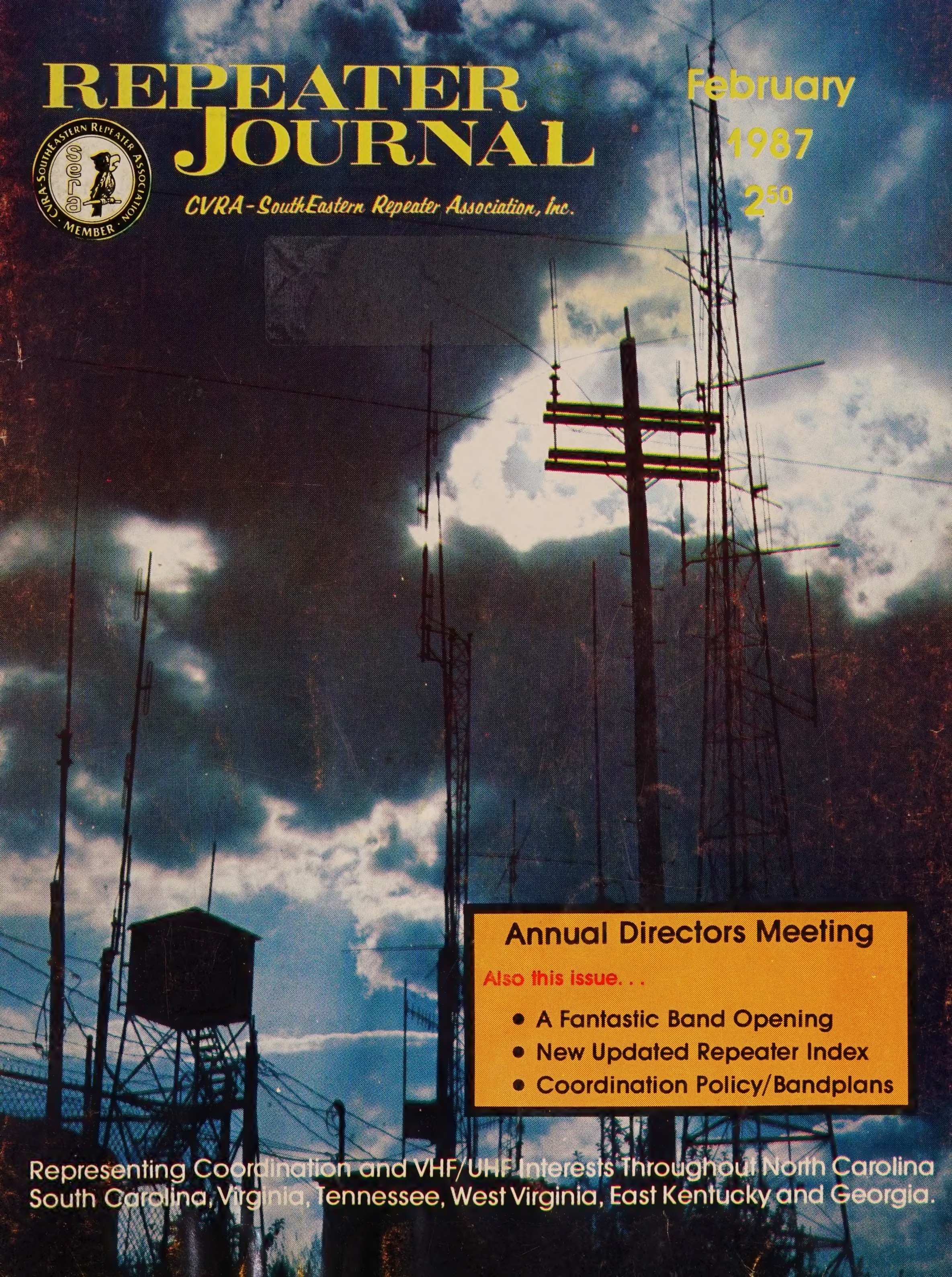

REPEATER JOURNAL

CVRA-SouthEastern Repeater Association, Inc.

February 1987

2^{50}

Annual Directors Meeting

Also this issue. . .

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- New Updated Repeater Index
- Coordination Policy/Bandplans

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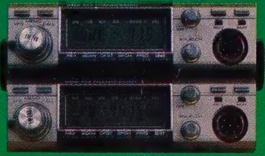

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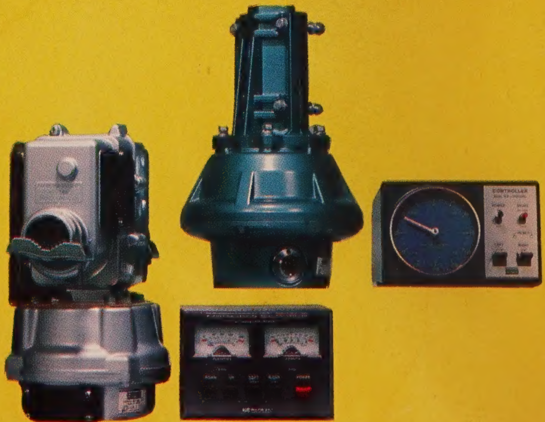

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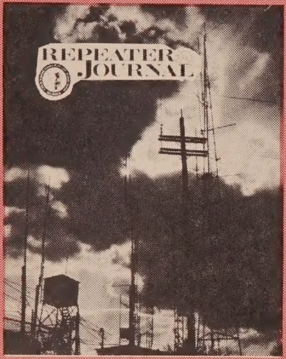

ON THE COVER

Storm Clouds cast an eerie feeling as they roll in on Spivey Mountain near Asheville, North Carolina. Over 100 antennas of various sorts extend skyward to the clouds on the mountaintop, including a couple of Amateur repeater antennas. . . of course. - Color Slide courtesy of Steve Riddle, WA4AFV.

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REPEATER JOURNAL

NATIONAL AWARD WINNER

CVRA - SouthEastern Repeater Association, Inc.

February, 1987
VOLUME 16, NO. 1
ORGANIZED IN 1971
"IN OUR 16th YEAR"

Editorial Comment

A Few Tidbits from the Editor. . . .

Greetings and best wishes for a new year to each of you. CVRA-SERA enters its 16th year of operation, and the organization never looked better. Things are looking up all over. We have some new Directors and Vice-Directors who promise to help remedy some situations that have been needing some attention, we have a new Coordination Policy and Guidelines, just approved by the CVRA-SERA board. We've launched full color and will continue to build the Journal to a magazine you can be proud of, and I finally got my antennas up. (This is a joke, you'll have to read the full story elsewhere in the Journal)

• • • •

We appointees, myself, David, Sharon, Lindsay and others are very pleased to see some promising hard working Directors come into the folds, and a renewed vigor among those who are remaining. I have jokingly told the new officers and Directors at the meetings, that we're gonna keep you until you get it right, because we appointees have to stay on even after you leave your 2 year tenure.

• • • •

We have a special 8 page pullout section in the middle of the Journal. It contains the new Coordination Policy, and also all the CVRA-SERA Frequency Utilization Plans. This will be handy material for you to file away and keep, especially any of you who own repeaters or plan to put on a repeater someday. The Coordination Policy is a result of over 150 hours of work, changes, corrections and coordination among the Directors, Officers, FCC and other Repeater Councils. It is far reaching, in that every possible situation is covered. It gives repeater owners the full picture of what is expected of them, what is expected of CVRA-SERA, and what is expected of the repeater users. It also details what the FCC expects the Repeater Councils to do, how to handle situations, and what the final outcome will be. We're quite proud of the new Policy. It is probably one of the most far reaching ones written in the nation to date.

It is patterned after the FCC's Coordination Docket and gives our Directors and Vice-Directors direction when handling any situation from simple coordination, to interference problems.

You will note, we now call our "Band Plan", our "Frequency Utilization Plan". This is in keeping with the FCCs requirement that Repeater Councils make maximum utilization of the Frequency spectrum. This guide allows us to be able to live with other States who may have a different plan. "Whatever plan allows a certain area maximum utilization of the Frequencies", is what the FCC desires.

Some of you repeater owners may be getting letters from your Director, if he does not have complete information on your machine. It will be required of him to have complete historical records of EVERY repeater in his area. Please be cooperative with him. He is doing it for your benefit and the future benefit of all in his area. It also shows you he is doing his job.

You can help too. If you see repeaters listed in the Journal that are not on the air, notify your Director so he can investigate and see what is goin on. . .

It shall be the responsibility of every repeater owner to see that their Frequency Coordinator has complete files on their machine, and that it is listed correctly in the Journal repeater index. However, we still want users to be concerned enough to tell us what is going on, especially when one is listed and is not on the air.

SERA Is You, Me and Your Fellow Hams

I still hear someone say, that SERA is being run by some people over there in North Carolina. I cannot believe someone could make a statement such as that. They are either just not aware of how the organization is put together, or they just haven't taken the time to find out before they engaged their mouths.

Continued on Page 11

REPEATER JOURNAL

FEB., MAR., APR., 1987

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About Associate Membership

Repeater users and Amateurs are invited to join CVRA-SERA as Associate Members. A membership fee of $6.00 per year will enable members to support the organization and receive the "Repeater Journal". Associate Membership deadlines are on the 15th of the month preceding months of publication -- Jan. 15, April 15, July 15 and October 15. Persons joining or renewing their membership must have their application into the Winston-Salem Post Office Box by these deadlines to receive the next upcoming Repeater Journal in February, May, August and November. Memberships received after any deadline will not receive next to be published Journal, but instead will receive the forthcoming issue the following quarter. HOT-P Associate Memberships are limited to one year duration at $10.50 per year. HOT-P, your Journal is mailed on Friday FIRST CLASS mail. Regular memberships are mailed on MONDAY, Third Class Bulk. CVRA-SERA does not issue receipts for Membership applications. Members should wait until next Journal comes out to report any problems to the Associate Membership Chairman, P.O. Box 24292, Winston-Salem, N.C. 27114-4291. Associate Members may hold appointive positions within CVRA-SERA.

About Full Repeater Membership. . .

Officers and Directors are elected from repeater representatives who are Full Members. Any repeater owner or club may join CVRA-SERA as a Full Member if they have an operable repeater on the air. Full Membership application, coordination information (if not on file) and $15.00 should be submitted for the annual Full Membership fee. Two Full Members receive the Journal from each application. The Full Member repeater is also appropriately recognized as a CVRA-SERA supporter in the repeater index. Full Memberships all expire on December 31 of each calender year.

About the Repeater Journal. . .

The CVRA-SERA REPEATER JOURNAL is published quarterly, during the months of February, May, August and November of each year and mailed free to members of CVRASoutheastern Repeater Association, a seven state repeater coordinating organization made up of repeater owners and users. Permission is granted for use of material contained in the REPEATER JOURNAL provided proper credit is given. The REPEATER JOURNAL Editor will swap newsletters with other Repeater Councils and News organizations upon written request. DEADLINES: Ad space reservations are the 20th of the month, and ad copy due the 1st of the next month. ONE MONTH prior to publication. News deadlines are the first of the month prior to publication month. The REPEATER JOURNAL is entered as Third Class Mail at the Post Office in Greensboro, N.C. Cover price for the REPEATER JOURNAL is $2.50. All news and Newletter exchanges should be mailed to the editor. Wayne C. Williams, K4MOB, 600 Lakedale Road, Colfax, N.C. 27235.

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About CVRA-SERA. . .

The CVRA-Southeastern Repeater Association is one of the largest Non-Profit repeater councils in the U.S. In our 16th year of operation, CVRA-SERA territory covers over 1,000 repeaters in member States of NC, SC, VA, WVA, TN, EKY, and GA. Our goal and promise is to continue providing a pleasant operating condition in the VHF/UHF spectrum of Amateur Radio

SERA Board Meeting in January - Informative

— by Wayne C. Williams, K4MOB
Editor, The Repeater Journal

They came from all directions. Some flew in, others drive in. The city of Knoxville, Tennessee heard strange calls on their repeaters as Board members, Directors, Vice-Directors and other officials of CVRA-SERA came into town Saturday afternoon, January 10th.

By suppertime, about everyone had arrived and most went to dinner at a local restaurant. Following dinner, they gathered at the host Hotel, and began setting up for the Saturday evening meeting. By 8:30 p.m. everyone was there.

The meeting, informal as usual for Saturday night was spent planning the main theme of the major Sunday meeting. Documents, papers, logs, indexes and other information was passed out for the participants to go back to their rooms and read in readiness for the Sunday meeting. Procedural questions were answered, and an agenda was established.

Minor problems were ironed out at the Saturday night meeting which did not necessarily involve the entire board. Director's reports were given and committee instructions were given by the President for the next day.

The Sunday Formal Meeting

After a hearty breakfast at the Hotel, the SERA Board moved into a large meeting room. President Cogle called the meeting to order and guests were introduced. They included, Tim Savage from Tennessee (Packet organization), Hop Hayes and Tim Vice of the Alabama Repeater Council and Jack Barry from Georgia with MATPARC.

Angelo Ditty, Engineer-in-Charge of the FCC Atlanta office was introduced.

First item on the agenda, Rose Bond, FCC Atlanta, and SERA FCC Liaison Officer, formally installed the new Directors and Vice-Directors in a brief ceremony.

The minutes of the Board meeting of last August were approved as Printed in the Journal, Treasurer, Ray Adams, N4BAQ reported on the financial condition of SERA. He indicated that the new laser printer had been obtained for Associate Membership. Adams also tossed a couple of roses to the Publications Committee and Associate Membership committee for keeping costs down in 1986. (Please see the Treasurers year-end report on page 33, this issue.)

President Carter Cogle, K4ARO read to the group a "Pledge of Cooperation" paper which had been drafted by a Committee Saturday night. The paper was the first step planned by SERA to knit a tight umbrella of cooperation between our organization and other Repeater Councils adjacent to our territory. The draft was approved by the Committee. (Please see separate story on this draft.)

The SERA Board was told that the Florida Repeater Council had invited us to send representatives to their annual meeting at the Orlando Hamcation in March. President Cogle was instructed to appoint 1 or 2 persons to attend at a later date. He was also instructed to appoint a delegation representing SERA to attend the "Repeater Coordinators" Conference at the Dayton Hamvention in April.

Next on the agenda, Angelo Ditty of the FCC Atlanta office spoke to the groupo. (Please see separate story.)

Alabama Repeater Council

Hop Hayes, assisted by Jim Vice of Alabama spoke, and thanked the SERA Board for their understanding and assistance over the past year. Hayes said that the Alabama Repeater Council is now strong.

"We have installed some dedicated people," he said, "Our Policy stands with some adjustments to be made in the future."

"We have had some growing pains, and had to weed out some problems, but now the Alabama Repeater Council stands ready to assume the duties of Coordination for the entire state of Alabama," Hayes said.

He also indicated that they wish to cooperate with CVRA-SERA in the future.

The Coordination Seminar

By mid morning, most other business was completed and the long process of reviewing the extensive CVRA-SERA Coordination Policy and Guidelines document was begun. The review was in the form of a seminar

Please Turn to Page 10

Pledge of Cooperation To Other Repeater Councils

At the annual board of Directors meeting in January, the board unamiously approved a "Letter of Cooperation" to be offered to all repeater councils surrounding our territory.

The text reads: "The CVRA-Southeastern Repeater Association, Inc., desires to communicate with all recognized repeater coordinating agencies in areas outside our Association, recognizing that radio signals do not stop at political boundaries. We request that if you have need to communicate with us, please contact the State Director for the area in question."

"For your information, we are enclosing a copy of our latest coordination procedures, including a list of current State officers."

"The Officers, Directors and Board of SERA wish to emphasize that our organization pledges total cooperation with your repeater council, for the betterment of Amateur Radio."

FCCs Ditty Speaks To SERA Board

"We've accomplished a lot in Amateur radio Coordination over the past year's," Angelo Ditty, Atlanta FCC began, "We have seen the CVRA-SERA pull together and strengthen as a unit, we have seen a shattered Alabama Repeater Council get backon its feet and grow united and strong, and we have seen the makings of an umbrella of Coordination Councils in the South-eastern United States."

The cooperative interweaving of CVRA-SERA, The Alabama Repeater Council, Florida Repeater Council, T-MARC and others will ultimately be of great benefit to the amateur community.

Ditty reminded the Frequency Coordinators that they have got to get records of all Frequency coordination in their area. Get their data base up-to-date. Know what's on and what's not on. He said we have to know exactly where we're coming from, and have an understanding of what others are doing.

"No one State--no one Repeater Council can ignore another state or repeater council," he said, "We have got to work together and cooperate.

Ditty said that Repeater Councils need to set liason with the Engineers-in-charge of other involved FCC offices, just as you have with the Atlanta office. He said his office stands ready to assist in any way. Rose Bond, of his office, who is also FCC Liason Chairman for CVRA-SERA can pass information to you when you need it.

Ditty said he was very pleased to be before the Board, and feels that understanding between FCC and CVRA-SERA is much better, which will be beneficial to both.

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★ **HAMFEST SOCIAL SATURDAY NIGHT**

A welcoming party will be held from 7-10 pm for all in the large meeting room inside the Hamfest building. Food, drinks, prizes for those present.

★ **AMATEUR FCC EXAMINATIONS**

BY PRE-REGISTRATION ONLY. Send completed form 610 with a copy of your present license and original code credit certificate (if applicable) and a check or money order for $4 made out to W.C.A.R.S./V.E.C..

Send to:

John Johnson WM4P
2118 Lyndhurst Dr.
Raleigh, N.C. 27610

The examination will be held at 7:30 am, Sunday, April 12,1987 at Kilgore Hall, NCSU Campus, Approx. 2 miles east of the Hamfest site on Hillsborough St. (Hillsborough and Brooks Ave.)

PRIZES

1st- Choice: ICOM IC-735 HF Transciever with matching power supply,CW filter and Keyer.
OR
ICOM IC-271H VHF Transciever with PS-35 power supply.

2nd- AMP SUPPLY LA1000NT No-Tune 1KW Linear Amplifier.

3rd- ICOM IC-28H VHF Transciever with touch-tone microphone

4th- SANTEC ST20T 2 Meter Handheld Transciever.

Pre-Registration Prize:
AEA PK-232 Multi-Mode Data Controller.

★ **CW AND HOME BREW CONTESTS**

CW CONTEST IN THE BUILDING HOMEBREW CONTEST IN BUILDING

PRIZES TO BE ANNOUNCED.

RARS members will monitor 146.04/64 and 146.28/88 to assist you in finding location

★ **SPECIAL INTEREST MEETINGS**

SPECIAL INTEREST

Q.C.W.A., M.A.R.S., ARRL-NTS and other meetings will be held in the building. Times will be announced at the Hamfest.

FOR THE LADIES

Special programs and on-going fairground activities will be of interest to the XYL.

1 Fleamarket space (1 8 ft. Table; 2 chairs)..$6.00 Our tables and chairs only - No outside facilities available - 24 hr. security - Vendor set-up Saturday 4-10 pm; Sunday 6 am. All vehicles must vacate the building by 8 am. Bring your own handcart.

RADIO SOCIETY'S

EST

VENDOR INFO: Tom Swanson,N4IZE
919-782-0791

GENERAL INFO: RARS Hamfest
PO Box 17124
Raleigh, NC 27619

HAMFEST CHAIRMAN: Jim Bradley,WA4AOO
Rt. 1, Box 145
Apex N.C., 27502
919-779-8840

The Raleigh Amateur Radio Society welcomes you to its Fifteenth Annual RARS HAMFEST. All of the Hamfest activities will be in the Jim Graham Building and there will be no outside activities connected with the Hamfest. We will be sharing the Fairgrounds with other events that will be going on so please follow the traffic and parking directions on the grounds. If you desire full hook-up overnight camper/RV parking, please check the box on the registration form. A $5.00 per night fee will be collected on site by fairgrounds authorities.

Pre-registration by April 5, 1987, is most desirable as indicated on the form below.

AC power is available by special request. There is a full service concession in the Hamfest building. Motels and restaurants are located close to the fairgrounds site.

Don't forget to stop at the ARRL and RARS club booths for an eyeball. QSO with your ARRL Section Officials and pick up some of the latest publications and membership forms.

All Hamfest participants over the age of 12 must pay the registration fee.

The RARS HAMFEST COMMITTEE will do their best to see that you have a delightful time. If you have any comments or suggestions please let us know.

PRE-REGISTRATION FORM

Make checks payable to RARS

PRE-REGISTRATION PRIZE

AEA PK-232 Multi-Mode Data Controller

Pre-registration drawing at 10 am Sunday, April 12 - You do not have to be present to win.

TO: Rollin Ransom, NF4P
2447 Fairway Drive
Raleigh, NC 27603

Please Print Clearly and Include SASE

____________________ ________
Name Call

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Address

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City State Zip

PRE-REGISTRATION CUT-OFF DATE:
April 5, 1987

___ Reg....$4.00 $______
___ Tables.$6.00 $______
Total Enclosed $______

Space for Camper/RV ( )

A Truly Remarkable Band Opening On 2-Meters

Heard From North Carolina

— by Wayne C. Williams, K4MOB

I've always been sort of a 2-Meter FM DXer. Years ago myself and several others used to "play" around with big beams and power on FM, just to see how far we could work. Occasionally a temperature inversion, or other weather phenomena would create a band opening that really made things fun. We always noticed that the people who grumbled at us for tying up their repeater or simplex frequency while trying to work a distant station, would trомple all over us when the band opened up. Ham radio is like that. A band opening is like Santa Claus at Christmas. It makes little kids out of grown men.

Such a night occurred on November 24th.

It started West of West Virginia in early afternoon, and slowly spread across the Mountains into portions of South Carolina, Georgia, North Carolina and Virginia by late evening. I noticed that West Virginia repeaters I could normally hear from my home were reading a little high on the scale as darkness fell. Later they got mid scale on the "S" meter, and finally by 9 p.m. they were full scale. Shortly after that, we began hearing repeaters in Indiana.

I was fortunate enough, along with several others in the area around me to check into the "Mighty 25" repeater DX net at 10 p.m. The 145.25 repeater in Indianapolis was running S5 to .9 signal into North Carolina. If fact, net control occasionally brought up the 145.25 repeater in Greensboro, just East of me.

We had loads of fun in the early evening, before everyone found out what was going on. At one period of time, I was working the 145.31, N8DZS repeater on Mann Mt. near Leyland in West Virginia (this is apparently before Alex, N8FWL came along. We have his comments from his viewpoint later), we had quite a roundtable going. . . just plain old good Amateur rag chew, passing it around like a small group in a town. The difference was, we had some of the following checked in: Clifford, W0SLI of Duluth, Mn., WB0WIL, Scott of St. Louis, Mo., WA4LQN, Bill of Harra, Tn., Don, KD9IL of Chicago, KB4MIV of Dayton, WD8JJY, Dick of Eaton, Oh., W9YDP, Jim from SE Indiana, VE3IC, Norm from Goose Bay, Ontario, K8SGV, Gil, Three Rivers, Mich and W8MRN, Bob from Newark, Ohio. We also had the pleasure of working Ted Wolfe, WD4KHL former Director of West Virginia.

Later as the evening progressed, Alex, N8FWL and KA8KLQ, Don from Beckley dropped in and carried on, while we started roaming to see what else we could find.

Other West Virginia repeaters were experiencing the same fantastic DX conditions and we worked several of them.

Late that evening, I went back to the 145.31 repeater on Mann Mt., and chatted briefly with Carol, AA4KP, South of Charlottesville, Va. I lost her in the commotion, then moved to the 145.25 repeater, N4AZM in Greensboro. I was delighted to find she was there, so we chatted a little more. Since my beams were freed up from directing toward a distant repeater, I turned them toward Carol, and lo and behold, I heard her on the input. Naturally, she and I had to make a simplex contact, so we both went 145.25 simplex for a moment, while the other fellas findly stood by for us. We completed our 210 mile simplex contact and then went back on the repeater.

At midnight, I was exhausted, so I bid them a fond farewell and went to bed. Tuesday morning, I got up and to my great pleasure, the opening had shifted North of me. I was hearing "3s" all over the band. I jumped in and worked a few by the side, although most of them were seemingly content on carrying on their local chatter as they drove to work.

I did have the pleasure of working Gary Hendricksen, W3DTN, but he said I was a little noisy into the Maryland repeater, because I was also keying up a Harrisonburg, Pa. repeater. I told him I was sorry!

Hope many of you had an opportunity to enjoy the opening. It was the first good one I have encountered in several years, but the wait was worth it.

A West Virginia Repeater Owner

— by Alex Hedrick, N8FWL

I knew something was amiss on Monday night as I traveled north on US Route 19, from Beckley to Scarbro. I was headed to my sister-in-laws' mothers house to take care of some important business when I heard Dave Boggs (KI4AC) of Mount Airy talking to another station on the 146.955 repeater.

I don't recall who Dave was conversing with, but I have developed an ear for signal strength and quality from the experience I had gained in commercial broadcast radio and public safety radio, prior to becoming a ham. I noticed that Dave sounded like he was sitting directly under the repeater running about five watts.

After completing my business in Scarbro, I headed back home to Beckley and man was it foggy! You honestly couldn't see 50 feet in front of your car. I turned on the Kenwood to keep me company and lo and behold I could not believe what I was hearing. Zero and nine calls on 146.955! Nelson Linkous (KD8MZ) was having conversations with zero and nine calls who were actually in zero and nine land. I said to myself that this could not be, not on 2 FM! As I continued south on US 19 these conversations continued and it started sounding like a pileup on contest or field day.

I stopped off at the Crossroads Mall to tell my wife that I would be extremely busy tonight, when she came home. Of course she asked why, and I explained the phenomenon as best I could. I additionally told her that I could not remember when this type of band opening had happened before, or how long it would last; but that it could be talked about for years to come.

When I left the mall enroute to my residence, I expected this band opening to have disappeared; but instead it was going full strength. I arrived at my house, got a cold one from the refrigerator, and ran upstairs to my shack. I scanned six meter side band first, and I was surprised to find it was "as dead as a doornail". I then scanned two meter side band, and really didn't find anything remarkable there either. So I turned immediately to my 2 FM memory channels. I found that Nelson Linkous and Tim Ford (KC8IT) had everything under control on 146.955, so I moved to 145.310 where I found a situation that resembled pure chaos. I listened for a few minutes and I heard four, nine, and zero calls from everywhere. I even heard a few eight calls from Michigan! So, as politely as I could, I broke in and established an informal net. What followed was a memorable experience. From 8:45 pm to 11:42 pm I coordinated 76 check ins from such people and places as: WB9NTU, Mike in Batavia, Illinois; AA4KP, Carol in Charlottesville, Virginia; KB4LQX, Doug in Jefferson City, Tennessee; WA9KEK, Howie in Chicago, Illinois; N9FUT, Sam who was mobile in Indianapolis, Indiana; KB8IYZ, Kyle in Kalamazoo, Michigan; N9RD, Juergen in Westville, Indiana; N8DKM, Bob in Yipsalanti, Michigan; KC8EO, Sharon

Continued on Page 7

who was mobile in Constantine, Michigan; K4MOB, who is this guy Wayne, who said he was in Greensboro? (but I knew he was in Colfax!) Another interesting contact I had was with a 100 mw portable operated by N4JNE, Gary in Winston-Salem, North Carolina. Many other stations checked in from Indiana, Illinois, Kentucky, Tennessee, Virginia, North Carolina, Pennsylvania, and West Virginia. (My apologies for not mentioning all of you!)

Later I went over to the 145.170 repeater and relieved Bill Walsh (N8BJY) who was conducting another informal net. I continued to operate this informal net for Bill with 15 check ins from all over the place from 12:45 am to 2:34 pm. This was a slower paced net with a little more ragchewing with some other interesting check ins from such people as: N0EEA, Lloyd from Saint Paul, Missouri; N9FKD, Ron from Portage, Indiana; KB4LPU, Lee somewhere in western Kentucky; WD4PRW, Keith in Bellville, Illinois; KA8ZYN, Jim from Athens, Ohio; and N5ANX, Lowell in Indianapolis, Indiana. Well as I said this lasted until 2:34 am and it soon became impractical for me to continue, as I had to be at the Sheriff's Office by 8:00 am. I signed off of 145.170 and turned net control over to Keith in Bellville and Jim in Athens, and stumbled down the stairs to my bed.

When I woke up at 7:00 am the band was still up with a few very sleepy amateurs still going at it.

I would like to say thanks to every one who participated in these informal nets on the Appalachian Repeater Association's 146.955, 145.310, and 145.170 repeaters. As for now, I have a number of QSL's to complete and mail out, which I understand you don't normally do for FM repeater contacts; but after all this was a truly remarkable band opening.

From Another Repeater Owner

— by Nelson Linkus, KD8MZ

Alex pretty well explained things as they happened on our area repeaters in his report. We did not approximately 230 checkins throughout the night on all the repeaters. Probably the most interesting one came from a ham in Chicago, who said he was on a handytalkie. His position on the 90th floor of the John Hancock Building helped him immensely.

We thoroughly enjoyed the contacts from all over the place.

(Editor's note:) We received word that the 146.955 repeater lost its 160foot tower in December during a bad ice storm. It was reported over 6-inches of ice on the tower when it fell. As of this writing, they are operating the KD8MZ repeater from a temporary antenna. They say a new Rohn 45G is going up to replace the old tower. By the time you read this, it should be in place, and the fantastic 146.955 on Oneidia Peak back on full steam.

Band Opening

— by Ted Wolfe, WD4KHL

Two-meter FM band openings can be exciting for the amateur repeater user when the DX starts rolling in.

Two band openings of note occurred in the region in late November.

The first was Monday evening Nov. 24 and continuing through the night into the next morning. Another later in the week occurred Saturday morning, Nov. 29, and lasted through much of the day.

The Monday evening opening was the biggest I remember since the summer of 1980 when one occurred within two weeks of the KFCARC getting the Lick Knob W8FG 144.87/145.47 repeater on the air.

I became aware of the Monday opening about 8:00 p.m. when distant signals began to appear on the Scott Depot K8SLI 147.87/27 repeater. I heard John, WB9LRR from north of Indianapolis, and Wayne, K4MOB, from Colfax, NC, before the latter faded on me. Later in the evening I heard a Louisville, Ky. ham on the K8SLI repeater.

However I spent most of the evening monitoring the Lick Knob mountain top machine. Typical of the contacts made there were: KC9ND, 20-miles south of South Road, Ind.; KB4EQX, Knoxville, Tn.; KA9ROO, Evanston, Ill.; KA8THW, Scott, at Adrian, Mi.; N9GDM, Mike, from north of Chicago; WF4I, Derek, Winston-Salem, NC: K4ADI, Frank, Lyman, SC; AE8L, Bob, Cincinnati, Ohio; and N9FRY, Ron, 30-miles east of St. Louis, Mo. -- my longest contact of the night.

I also heard but did not work: N0EIH, Verne, Sullivan, Mo.; WA0AUK, Smitty, 60-miles SW of St. Louis; WA4IAE, Bill, from Sauertown Mtn., NC; and KB4TQQ, Tim, a mobile from near Blacksburg, Webster County, Ky.

During the Saturday opening I worked only two DX stations: KA8LYB, Paul, Cincinnati; and Tom, WA3KQB, mobile near Pittsburgh, Pa. Tom now lives in the Kanawha Valley but was on a trip during the opening. Both contacts were on the Lick Knob repeater.

The longest contact I heard of was on the Lick Knob repeater between 12:30 and 1:00 p.m. Saturday before I began monitoring. But Rusty, K8WOI, operating 3-miles North of Proctorville, Ohio, worked a mobile in Waco, Texas. That's roughly 930 air miles.

Karen, N8HUC, Hurricane worked a sideband during the earlier opening and logged 14 grid squares and eleven states. Karen is the wife of Jim, KD8VT.

From High Point, N.C.

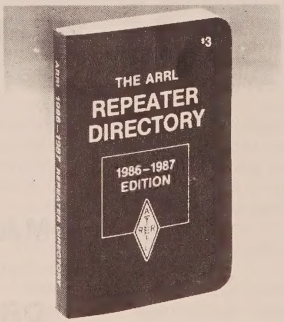
— by F.L. Warford, K4AZA

I believe this is probably the best band opening I've seen on 2-meters in the past 15 years. The outline seemed to have been about three miles North and West of my home in High Point, N.C. as far as working Direct.

We were able to access many of the West Virginia Repeaters and the Indiana repeaters from our place. We heard several fellas in Greensboro and Winston-Salem also getting into the machines, but other than these areas, plus Mt. Airy, no one else around the State seemed to be hearing what was going on.

I logged the States of Texas, West Virginia, Virginia, Tennessee, Illinois, Michigan, Ohio, Wisconsin, Iowa and Indiana. Then North of us, I heard New York, Connecticut, Pennsylvania and Maryland.

John Bryant, KB4KQI of High Point was in Schuyler, Nebraska at the time of the opening in his truck. He worked some unusual skip on 440 mhz. He also worked repeaters in Omaha, Neb., Lincoln, Neb. and Redwood, California. He said the Redwood 440 repeater had a pileup worse than you would see on an 80 meter pileup.



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Acceptance of our new pocket-sized **1986-87 Repeater Directory** has been phenomenal! There are 10,321 listings in the same size type as in previous editions. The 15th edition, copyright 1986 is $3. Please ad $2.50 for shipping by parcel post or $3.50 for UPS or available from ARRL dealers.

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Hams Operate Power Company EMI Test Van

— by Ted Wolfe, WD4KHL

It is not unusual to spot special purpose vehicles on the highways today. They are built to perform a particular task such as specialized fire-fighting, rescue, emergency or industrial jobs.

This is the story of one such highly specialized vehicle driven and operated by two hams working out of Canton, Ohio. They are: Keith Chambers, W8SSA; and Dave Klinect, KA8MHW.

The vehicle is the American Electric Power Company's EMI test van, the fifth generation of a first-of-its-kind vehicle developed by the utility in 1969 to assist power company engineers in attacking problems of electromagnetic interference at their extra high voltage generating plants and distribution centers.

The van has a master control center, dual air conditioning, dual range 4-wheel drive, a 6.9 liter diesel engine to eliminate ignition noise problems, and an Apple computer interfaced to the main system.

Keith used to live in Charleston so when he comes through the area in the van he is in frequent contact with Valley hams. It was through such a local contact that he was invited to present a program on the van and its uses to members of the Putnam Amateur Radio Association. The meeting in late fall was held on the parking lot of the National Weather Service facility at Yeager Airport in Charleston.

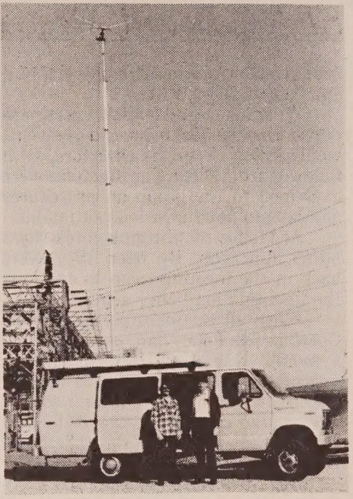
Keith preferred not to put a monetary value on the van and its equipment but it runs to six figures, close to "two big ones." That's because of the cost of customizing the chassis and all the specialized gear aboard, including--on top of the van--a telescoping 40-foot mast for various antennas.

A number of specialized antennas are carried aboard the van. Some of the antennas cost as much as two thousand dollars each. With the equipment aboard it is possible to make precision measurements and comprehensive audio and RF analyses.

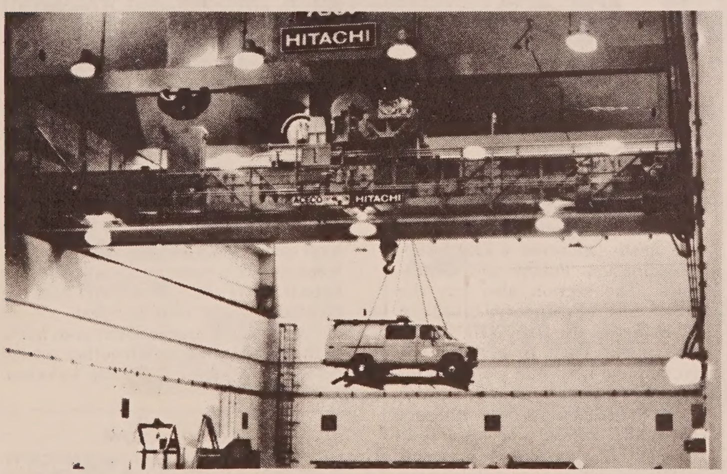
The van is completely equipped for radio and television interference investigation, measurements of EHV radio and audible noise influence phenomena and CW field intensity measurements of all types, precision and measurements and analysis. Instrumentation consists of microprocessor-controlled audio spectrum analyzers, statistical noise analyzers and precision sound pressure level meters.

The main RF spectrum analyzer operates from 14kHz to 1000 Mhz in 15 RF octaves with a dynamic range of -20db to 120db (re 1 microvolt). Detector outputs are: (a) peak, (b) slideback peak, (c) quasipeak (ANSI and CISPR), (d) field intensity, (e) true rms, (f) voltage deviation.

The system can display each octave band in real time or in any of six bandwidths. In addition, the display has adjustable bandwidth capabilities.



Special job, special van. Dave Kleinert, KA8MHW, left, and Keith Chambers, W8SSA, operating out of Canton, Ohio, run the American Electric Power Company's Electro-Magnetic-Interference van in a seven state region. — Photo by KA8MHW.



Here's a shot of the AEP EMI-test van at work December 5-6. Dave, W8SSA, was operating the van at the Bath County (Virginia) Hydroelectric plant, the world's largest pumped storage project owned by Virginia Power Co. The power house is ten stories high, of which nine and one-half stories are under water. The picture shows the van "flying" across the generator floor via a 760-ton crane. The room is 500-feet long and five stores beneath the surface of the water. — Photo by Keith Chambers, W8SSA.

Six radio transmitters on the communications console give two-way radio coverage to every area of AEP's seven-state operating system. The transmitters, main instrumentation system, 120-volt AC inverter and air handling system require three heavy-duty batteries charged by a 100A alternator.

No, this isn't the vehicle sent out by your local power company when someone reports a noisy transformer or something in the neighborhood generating RFI which is affecting your radio or TV receiver. The van is used only at the various power companies which make up the AEP system.

A similar EMI test van operates out of another location in Indiana.

A special camera aboard is used to photograph extra high voltage corona effects on power company equipment operating at up to 765-thousand volts.

There's plenty of on-board security equipment to discourage a break in or vandalism when the van is parked. There are a number of alarms including a wireless one that alerts the operator via a pager type receiver. That way the operator is alerted if someone tries to break in while he is at a restaurant or staying overnight at a motel while on a road trip.

Keith, W8SSA, joined AEP 34 years ago, immediately after graduating from West Virginia Institute of Technology in Montgomery.

Background for the article was acquired through interview with Keith and perusal of material he provided by mail, and pictures are courtesy of his partner, Dave, KA8MHW.

SERA Board Meeting Highlights. . .

conducted by Wayne Williams, K4MOB and Angelo Ditty, FCC.

Williams would pull pertinent portions of the document and questions would follow from the Directors, with followup from Ditty. Clarifications were explained to the group on procedures and how to handle various situations.

At 11:15 a.m., the group broke for a buffet luncheon. By noon they were back in the meeting room to continue the Coordination Policy seminar.

When all pertinent portions of the Coordination Policy had been discussed, a motion was made by Williams for approval of the docket with a few minor changes which had been recommended. The motion was seconded and the new CVRA-SERA Coordination policy and Guidelines were approved unamiously.

After the vote, Williams and Ditty thanked the group for their participation and their courage to approve such a far reaching document, and for their participation in the seminar.

"I think we have learned a great deal today, especially with the guidance of Mr. Ditty," Williams told the group. "We have approved probably the most comprehensive and extensive Coordination Policy in the Nation, one that will probably be a blueprint for other Repeater Councils to follow. "Your great assistance over the past 6 weeks in getting this thing drafted and ready is very much appreciated, and I feel all the Amateurs in our territory will benefit in the foresight you have shown," Williams concluded.

(The Repeater Journal is pleased to publish the new Coordination Policy and Guidelines in its entirety, along with the CVRA-SERA Frequency Utilization plan for all VHF/UHF bands. The documents are printed in a special 8-page pull-out section in the middle of this issue of the Journal.)

Adjournment

Shortly after 1:30 p.m. the Board adjourned and everyone headed back home. Our special thanks to Ray Adams, N4BAQ for setting up such an excellent meeting place, and to the hams of Knoxville for allowing us to use their repeaters while in town. Incidently, we had B-I-G snow flakes falling Saturday night which covered the cars and lawns, but it melted overnight and no body got stranded.

Second Annual Meet Of Board To Change

At the CVRA-SERA Annual (First) Board meeting in January, the problems of holding a second yearly meeting in conjunction with the Shelby Hamfest was discussed. Since many members of the Board are working at the hamfest, it was felt that a meeting should be scheduled at a different time, away from any hamfest.

After some discussion, a committee of Williams, Ray Adams, and President Cogle were appointed to set a date, place and time for the second meeting. According to the by-laws the meeting must occur sometimes during the months of August or September.

Everyone will be notified in the August Journal. Board Members will be notified as soon as a time, date and place has been established.

Repeater Owners! Support CVRA-SERA

If your repeater is not a Full Member of CVRA-SERA, we cordially invite you to join. You may name two persons who will be Full Member representatives, and each will receive the Journal.

CVRA-SERA has been helping keep your bands clear for years, and will continue to do so, whether you join or not. We support you--won't you support us. CVRA-SERA IS you, us and everyone. We all need to join together in one massive show of cooperation. Your membership helps us carry on the expensive job of coordinating, keeping up with what is going on, and publishing a Journal to keep you and all your fellow hams fully informed. We'll be anxiously looking for your application.

Coordination Policy And Guidelines

The Repeater Journal has a special 8-page pullout section in the center of this issue which contains the newly approved CVRA-SERA Coordination Policy and Guidelines. The section also has the CVRA-SERA Frequency Utilization Plans for all the UHF/VHF bands. You might want to pull out the section and keep it in your files for future reference.

All repeater owners who are not CVRA-SERA members and do not get the Guidelines in this issue, will be mailed one separately in the near future, by their Director or Vice-Director. We are printing extra copies in a separate 8-page booklet.

Charlotte Marathon Communications

— by Paul Reynolds, WB4MCI

Once again the Charlotte (NC) Amateur Radio Club provided communications in this years Charlotte Observer Marathon held Saturday, January 3. The Fun Run, Men's and Women's 10k Race, as well as the Marathon, a 26.2 mile course, was covered by 24 Radio Amateurs. Communications was maintained with all of the aid stations, pick up van, timing van, police, emergency medical personnel, WSOC TV, start and finish line back to net control which was at the finish in the Charlotte Convention Center.

The net was conducted over the club repeater W4CQ/RPT 146.46/147.06 MHz along with Glenn Scott's repeater WA4AOS/RPT 144.75/145.35 MHz was used to pass heavy traffic that was not destined to net control. The club kept track of the lead runners, runners to be picked up, who was picked up or in need of help, as well as where the last runner (walker) was.

The following people should be thanked for a job well done, especially since most of them braved the cold and windy weather. At the aid stations were Harold Benson G8NF/W4, Don Biltcliffe N4FNR, Kelly Bowman WA4JXD, Vivian Bowman WB4MSZ, Lewis Cloninger KI4TJ, Ike Cobb AJ4M, Bob Doran K2VJG, Buck Escott WB4OTP, Jim Harper WD4LGN, Tom Osterhaus N4NIM, Jim Pilker KK4N, Dean Prevett WU4A, Laurie Prevett WB4QYC, Bob Price KB4BVH, Nestor Ravenna KI4UD, and Glenn Scott WA4ASO. At Police Liaison was Jeff Cloud W4USH. With the Pick Van was Jeff Blyth KA4WYC. At the Timing Van was Wray Ware WB4BQG. WSOC TV liazon was Mike Young KA4VUK. Net Control was Lillie Murchison WB4BUK, Thelma Reynolds WA4JLW, and Paul Reynolds WB4MCI who organized the communications along with the Charlotte Observer (newspaper).

At WSOC TV, Harold Johnson, a local sportscaster, and the officials there were very impressed by the way the club kept track of the runners and how the communications were handled.

After the Marathon was over, a few of the club members got together at local restaurant to discuss the day's events.

Did You Know!

The seven Districts represent over 1,000 repeaters. This figure represents about 10% of all the repeaters in the United States, Canada and U.S. Possessions.

Many 440 Repeater Link/Control Freqs May Be Wrong

The 440 mhz band is the fastest growing band in SERA territory for the 3rd straight year. More repeaters are being put on than any other band in most all States.

A potential problem exists, which if not corrected soon, will cause bad problems years down the road.

A look through the Director's copies of repeater listings, which contain Confidential control and link frequencies, find that many repeaters are using frequencies on the 440 mhz band designated repeater input and/or output frequencies. This was no problem years ago, when 440 activity involved a few repeaters here and there, and few 2-meter repeaters used 440 for control, but things are building steadily to where a potential problem exists.

Repeater owners should take a look at their Link, Auxiliary, and Control frequencies and see if they are in the proper portion of the 440 mhz band. If not, the repeater owner should contact his local State Director who will be glad to work with him and get some new authorized frequencies.

The SERA Bandplan calls for control link frequencies to be in the area of the 420.00 to 426.00 mhz portion of the 440 mhz band. Any control links falling within 430-431 are in Digital band portions. 442.00-445.00 are repeater outputs and 447.00-450.00 are repeater input frequencies. Other portions of the band have their own designated uses too. So if your link or control frequencies do not fall within the 420-426 portion or 433 to 435 portion you should contact your State Director for help in getting moved.

If you have a control on a FM repeater frequency and suddenly a repeater appears, since the Link frequency is out of band, you would bear primary responsibility in resolving the problem of interference which will occur.

The best thing is to eliminate the potential for a problem.

Tidbits From The Editor

Continued from Page 1

If you're reading this, YOU are a part of SERA. In fact, every ham on VHF/UHF, every repeater, every operator and owner is a part of SERA. SERA is an organization made up of Repeater owners and users in a 7 state area. A Director in Tennessee has NOTHING to do with a repeater owner in Virginia. I as Editor of the Journal have nothing to do with coordination of ANY repeaters, anywhere. I, like you, are supporters of the organization. There are specified people who run SERA, people who have been elected by the Full Member (owners who support SERA by membership) repeater owners. SERA represents all the hams and all the repeaters. Unfortunately not all the hams and all the repeaters choose to support SERA. Maybe someday, they will feel that it might be worth while. SERA is watching out for them, whether they support or not. . . we MUST do this.

I sure would like to see our membership swell to 5,000 this year. We've kind of run out of ideas of how to get new members. When you look at the number of hams we have in our 7 states, and figure about 1/2 of them are on VHF/UHF, and then look at the number who support SERA, it's kind of pitiful. I agree, 4,000 members makes up one of the largest regional organizations in the Nation, but the kind of support we should have would net us about 10,000 or more members. There are housands out there who don't know us, and might like to join. But how do you get to them? Especially with the limited funds available for promotion, and the limited manpower we have to go out and solicit membership. Perhaps you readers might have some winning ideas.

— Wayne C. Williams, K4MOB, Editor

Dan's Got It All

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IC-751
ICOM
IC-02A
FT-980 CAT
FT-757 GX
FT-209 RH
KANTRONICS
THE INTERFACE
TR-7950
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TH-21AT
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WEST VIRGINIA NOTES

By Ted Wolfe WD4KHL

I am unable at this time to follow up on the K8SOR eye injury from the previous issue as the matter is likely to go into litigation. I'll try for a follow-up once the matter is settled.

• • • •

The sponsors of the Third Annual Charleston (WV) Hamfest and Computer Show have moved the event forward in 1987. The first two outings were in August and July. For 1987 it will be held on Sunday, April 5, 9:00 a.m. to 5:00 p.m., again in the air conditioned Charleston Civic Center. Talk in is 146.28/88.

• • • •

The Fayetteville, WV Hamfest for 1987 will be held Sunday, February 22, again at Fayetteville High School. Sponsors at Fayetteville might want to set the date for the 1988 hamfest and get the confirmed date to the **Journal** early so that it can be listed in the May, August and November issues in 1987.

• • • •

Separately I've submitted two other articles for the **Journal** which you may find elsewhere if there's enough space this issue. One is on the huge 2-meter band opening experienced in November in our area. The other is about a special power company EMI van operated for their employer by two hams.

• • • •

Speaking of that band opening, I talked with Alex, N8FWL, to get details of the operations on the Layland/Mann Mtn. 144.71/145.31 and the Bolt Mtn. 144.57/145.17 repeaters during the opening for an item. He told me he had written a separate article on that and had submitted it to the **Journal** editor direct. I'll be looking for that story in this issue, along with something from Gary Holt, N8BZS, on the linking now being done by the Appalachian Repeater Association. Alex is secretary of the Association and a deputy sheriff in Raleigh County, WV. Welcome to the list of **Journal** contributors, Alex.

• • • •

On the subject of deputies, another deputy/ham is Frank Mynes of Putnam County, WV. Frank is N8OHZ. He's also known as Frank #2. That started when so many Franks showed up on 2-meters that their friends numbered them. Frank #1 is Frank Martin, WA8VRS. Next, I suppose we'll have to start numbering the Garys or Garrys since I know about half a dozen hams by that name.

• • • •

One, Garry White, WD8OMB, is now on packet from his new mountaintop near Hurricane. On Sat., Dec. 13, Garry brought his station to my home but we were never able to get a connect. I'm practically at river level in a valley surrounded by mountains. There was nothing wrong with the equipment for when Garry got back home he made several packet connects that evening.

• • • •

There's been a call change on the Bolt Mtn. 144.57/145.17 repeater. When Dennis Jennings, KD8X, moved to Charlotte his call was temporarily replaced by that of Alex Hedrick, Jr., N8FWL. By the time this is in print the call should be that of Harry Evans, Jr., N8DKL.

• • • •

The Bolt Mtn. repeater is now carrying the 8:30 p.m. Wednesday night CVRA/SERA news net. I finally heard my first complete net on Dec. 17. Hopefully some other repeater will now pick it up and repeat it into the Kanawha Valley.

• • • •

Several hams from the area along the Virginia border have reported the wide area Galax/Lookout Mtn. N4VL 144.53/145.13 repeater is off the air, victim of interference on its input. The story given me is that the interference reportedly is coming from privately owned broadband video amplifiers (some up to 20-miles distant) being used in that sparsely populated rural area. If this is so, I am sorry to hear of it. When I was in that area it was a pleasure to operate over that fine machine.

• • • •

Gerry Sizemore, WD8SEN, talked recently with Don Williams, WA4K, Bluefield, Va. and I learned that Don has been appointed Vice-Director CVRA/SERA for Virginia. Congratulations, Don.

• • • •

I was pleased to see the byline of W.C. Spenn, KS5AK, San Antonio, Tx., in the Nov. 1986 **Journal** on an antenna article. We've never met but have corresponded for several years.

• • • •

The Sept. 1986 issue of **Mobile Radio Technology** has an article beginning on page 20 on undercover antennas as opposed to disguised antennas for use on unmarked official cars. It includes an illustration of the mounting beneath the car's rear seat of a Com-Rad Industries (Buffalo, NY) DDRR (directional discontinuity ring radiator) antenna. It's something for hams who don't want to advertise the presence in their cars of expensive radio gear to consider. Com-Rad markets a 2-meter DDRR as an "Untenna."

• • • •

From the "Loud 'n Clear" newsletter of the Jackson County ARC, Dec. 1986 issue: A new club is operating at West Virginia Wesleyan College. It meets the first Thursday of each month in room 114 of Christopher Hall on the college campus. The club operates on HF and 2-meters from a club station on the fourth floor of the Hall of Science.

• • • •

During the third week in December I received two mailings from the Putnam ARA. The first, for those who asked for it, was a package on packet radio, principally routing maps to connect to stations in Ohio, Pennsylvania, Virginia, Kentucky, North Carolina, South Carolina and Tennessee using existing digipeaters in West Virginia and elsewhere.

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The information in the package was courtesy of Buck Earley, WA8USO, Ravenswood, WV.

The second mailing was an up to date listing of all current paid up members of PARA, first by calls and then by names. By mid December there were 87 members. The Association is trying for at least 100 members for the new year beginning 1 April 1987 (when dues are due and the autopatch code is changed).

In the third week of December PARA upgraded its K8SLI repeater 144.81/145/41 at Liberty with new Sinclair hybrid ring duplexers which greatly improved the service. The repeater is still not up to its coordinated power output. That comes later depending upon the level of financial support.

• • • •

Johnny Jones, WB8CQV, Charleston, who has the 146.28/88 repeater there, has just activated another in the 440-Mhz band. The new repeater's input is 449.95 and the output is 444.95. It operates with Johnny's call from a site on Spring Hill Mtn. in South Charleston. Present (Dec.) output is 50 watts. It will go to several hundred watts upon arrival of the final amplifier. Johnny says he plans to install several touch-tone activated features such as links to 2-meter, 6-meters, and 10-meters as time and the pocketbook permit. There are already a half dozen regular users of the new repeater.

• • • •

The Charleston (WV) volunteer examiner group has scheduled its next testing session for March 7 at George Washington High School, starting at 8:00 a.m. Further information can be obtained from Al Hix W8AH, Jim Lingan AC8K, or Bert Pauley N8BP.

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The 1987 29th annual West Virginia State Amateur Radio and ARRL Convention (and hamfest) will be held July 25-26 at Jackson's Mill. This is a change from previous years when it was scheduled near the fourth of July holiday.

• • • •

New 1987 officers of the Kanawha ARC were to be installed at a Jan. 10 dinner at 6:00 p.m. at the Rose City Cafeteria in South Charleston. Those elected in December to serve during 1987 are: Pres., Cal White, W8ZHN; V. Pres., Randy Coles, WA8IWZ; Secretary, Ann Rinehart, KA8ZGY; Treasurer, Ollie Rinehart, KA8TIK; Publicity Dir., Bill Hunter, K8BS; and Program Chm., James Andrews, KD8VT.

• • • •

In a recent get together for Coffee, Randy, WA8IWZ, was showing off his Sony 2002 receiver, a great portable which digitally tunes a number of ham bands. A nice addition to the ham shack. Randy was on his way to the Antique Radio Club of Charleston's meeting room on Central Avenue for the first night of a new tech/general class which will run 12-to-14 weeks. I have no report of enrollment.

• • • •

Some 50 hams, their spouses and friends turned out for the Christmas dinner of the Putnam ARA on Friday night, Dec. 19, at Smiley's Restaurant.

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No More Jokes About My Antennas - Folks

— by Wayne C. Williams, K4MOB

I'm a pretty reasonable fella, usually, but you guys who came to my house as welcomed guests and had the gall to make jokes about my antenna system kind of got to me. I took this stuff for 5 years, but no more!

No more "Hey Wayne, whatcha working with that tilted tribander" or "Boy that's the biggest vertical I've ever seen (my bare telephone pole) what is it 60 cycles. . . ha, ha, ha." "Wayne, Like your moon bounce antennas coming out of the ground in the back yard. . "

Alright, I admit, I've been a little slow getting things back up, but after all, I'm a busy man, you know, my job, my operating, "time with my family", etc., etc. It just takes a little time to get things like you want them, and mainly it costs money, both of which I don't have an abundance of.

Actually the brunt of the jokes was my poor tribander on the back 55-foot telephone pole which took too much ice load only 5 years ago, and twisted sideways about 25-degrees. I kinda thought it was unique.

The antennas growing out of the back yard and pointing to the sky were actually those two Hy-Gain beams I started tuning year before last, and just never got them finished. Those twists that hung from the tree the previous two years being tuned were finally trashed by my son on the riding lawnmower.

My front 65-foot telephone pole was bare, because we had taken down my 4-stacked Cushcrafts one weekend in 1981, and intended to get the new twists up the next weekend. I still can't remember what happened we didn't get them back up.

That wire tangled with coax hanging on my fence and running up to my telephone pole was my 75-meter dipole. I think it came down the year my out building burned down and the dipole support came down with it. . . I believe in 1978, or thereabouts.

I did make some progress about two years ago. When I designed my new hamshack and found the front telephone pole was in the way (actually it was sitting about where I sit now with my typewriter.) Rather than change the building plan, I just got someone with a B-I-G truck to pull it up and replant it 15 feet away.

Well, I've got news for you smart alek guys. You're gonna eat those words you had to say about my antennas over the past years. You see, we've done had them all fixed. The tilted tribander has been righted. A new rotor has been installed. The dipole is being strung on another new out building (need a better signal on my HF rig. . . WWV gets kinda weak in the evenings).

My pride and joy is now the front telephone pole. Eat your heart out fellas. Cause I got me the dang biggest 2-meter antennas I could find and I didn't put up just one, I put up four of them, and I guarantee you will drop your teeth when you see those beautiful things setting up there.

You'll be happy to know that I also took those beams growing out of the back yard and mounted them horizontally on the chimney for 2-meter SSB. Did I say the biggies on the pole were VERTICALLY polorized. . . they are kid!

(I'll put it this way, when I get things finished up on the FM system, you just might hear me on YOUR repeater. . . who knows.)

I won't go into detail of getting the antennas up, what happened along the way, because that's another story.

So when you come out as a welcomed guest to my hamshack, and you come in the door with a crick in your neck and you look slightly awestrucken, that's ok, I'll understand. It's your own fault.

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North Carolina Traveling

— by F.L. Warford, K4AZA

News About North Carolina And It's Repeaters

My name is F.L. Warford, K4AZA, and I am pleased to be the new North Carolina Director. We hope to be able, with the assistance of Orin, WA4TBR, your Vice-Director, to keep you informed with a North Carolina column, in future issues of the Repeater Journal.

Back in 1971 when Don Harris (W4BUZ), Bill Sims (W4RUQ) and myself got together in Durham, N.C. and discussed the problems of repeater frequencies and the distance that should be maintained to keep down interference. Bill throught we should get everyone involved that owned a repeater and form some type of group that would suggest the pair for them to operate on. In doing this it would stop some of the problems that we were having at that time.

This was in the time when there was only three machines in the state, all three were on 146.94, located in Durham, High Point, and Charlotte. Back then most gear was tube type and the range was thought to be about 50 miles or so.

We soon had hot tempers and a few unkind words being exchanged on the air, because operators started to use beams and were bringing up all the machines at one time. This only backed up what we had discussed and it was decided to have a meeting at the Greensboro ham club on one Sunday afternoon. The call went out, and about fifteen or twenty interested hams met. A group called the North Carolina FM Repeater Association was formed. This started the ball rolling and we now have a more efficient organization called the S.E.R.A. This has come about because the individuals involved have put in long endless hours to form a good working group. As you well know they can't do anything unless we as fellow hams give them the support they need. And in doing this we now have a good operating system that we can be proud of.

As I said earlier it takes team work and that is what I'll need to fulfill the appointment I now hold. I would like to have some help in the EASTERN, MIDDLE, and WESTERN part of the state. I need information on what's going on in your area and what the repeater owners plan to do, (add to the machine, overhaul, and etc.). Just drop me a line or give me a call on the phone and I'll be glad to see your up dates get in the news or help you on anything I can. Keep in mind now that I can't be everywhere at one time and if you don't let me know what's going on the users in the state won't know either. So here's looking for the story. PLEASE FEEL FREE TO CALL OR WRITE!!!

One thing has come to mind in the state of N.C. 450 mhz region. In looking over some of the data I see a lot of links listed in the 450 repeater operation area. If these are point to point links this is going to cause some trouble in the future. 450 is our fastest growing repeater band at this time, and if we aren't real careful we will start having repeaters coming up on someone's link freq. So if your machine is in this category you need to give some serious thought to changing freq. of your link, and going on a freq. that is in some part of the band set up for this. Now if this link is from one machine to another's input there is not any problem.

Again let me say thanks for the opportunity to serve you as freq. coordinator, and I'm glad to be part of the team once again.

• • • •

GREENSBORO: KB4IZ tells me that the 147.03 machine is in for a new face lift. Just talked to him on the landline and he said he had just received a new R.C. 85 controller, and was going to have the machine down for a while to install it. He also said that he was a new GRANDADDY! Boy, all this in one day!! BILL's going to add a new WACOM DUPLEXER and a remote base to it at the same time, plus a new cabinet. Boy is someone going to be bizzy, HA, HA. When the machine goes back in operation it will be under the call of W4GG, the old call of the GREENSBORO club that Bill was able to save. Also it will go back to its old home of the 600 foot platform at WOJY tower site on new N.C. 220, south of Greensboro. The remote base will operate much like the one on FISHER'S PEAK, except it will be on 450 band.

• • • •

WD4PQZ say's that the 443.500 machine is in line for a new controller also. This one will be an ACC. ITC 32. It too will have a remote base on it, this time it will be a two meter one. Keith hopes to have it installed some time after the first of the year. This machine will be on the same platform as Bill's, just on another corner. The receiver ant. is at about the 800 foot mark and the transmitter's ant. is at the 700 foot mark. We found a dual-band antenna that might be worth considering for this type of work. It boasts 4.5 dbd on two meters and a big 7.5 dbd on 450. Now for a remote base on two and repeater on 450 this means one good hard line, one antenna, one special duplexer (2m/450 of a very modest cost) and you have a working system. This would be a lot cheaper than running 2 transmission lines and 2 ant. You owners might check into this and it could save a bundle. . . .

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SAURATOWN MOUNTAIN: The 146.79 machine was removed from service to get a new face lift and some more bells and whistles added. JIM (N4LDK) says he hopes to have it back in service by the first of February, if not before. Seems that everyones' sink is stopped up and Jim's plumbing business is keeping him on the run at this time, and he doesn't have the time he would like. He says the machine will be sporting a 450 mhz remote base and have a new cabinet with a much needed new wire job. Also there might be a 6 meter remote base with it too. And if things really go good, it might have a little brother in the ajoining cabinet on 421.250 mhz. ATV. This would be the areas first ATV machine, and the input will be on 439.250. These are composit input and output, and it will have a 2 meter voice input on 146.43 mhz. How about that? Looks like this writer will have to hide some mad money so he can work this new guy on the block. Jim told me the group had some bad luck last summer when old man weather showed himself and lightning got into the ACC controller and the Falcon amp. They hope the new cabinets with the new surg protectors, and bypasses will help next year when the lightning starts to jump again. Good luck Jim, hope everything works out. . .

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FISHER'S PEAK: DOUGH (KF4UY) told us he was rather pleased with operations at the 444.800 machine. He said they had the usual bugs when they first went on but after about 30 days the G E master repeater settled down and has been doing a good job. Seems that some of the transmitter strips do not have the cooling fins on the side of the R.F. box where the tube for the final is located. This causes the unit to get a bit warm and this causes the filament leads to the R.F. chokes to get hot enough to melt solder and all of a sudden the final will drop down in power. This is rather hard to find because when you get to the machine everything is back in operation. So if you have a problem with one of these units I think if you will contact Dough he will tell you how to overcome the problem. The repeater sports a remote base on two meters, and I was lucky enough to be around the other nite when the big opening occurred on two. We waited in line with others and worked all out west through the remote base of KF4UY. (see Wayne's article on N.C. 2 M. band opening.) I happen to be with the group when they first put the machine into operation, and we heard a K9 working someone on 146.52 simplex. The 4 thousand foot elevation does great things for the operations. Dough says he would be glad for you fellows to give the machine a try. . . .

• • • •

SAURATOWN MOUNTAIN: N4GGC (ALLEN) passed the word to me that things have been a little slow on 443.100. Seems that traffic has slowed since 19-79 has been down. He has the gear ready for Lynchburg, Va. group, and the Hillsborough group have already run tests from their location to Sauratown Mt. and everything is working out okay. This will allow 19-79, 147.225, and Lynchburg to link up. This will also let everyone involved get into the links going north up through Va. The group is looking for some repeaters that might be interested in linking from Hillsborough East and from Sauratown Mountain South. If anyone is interested contact N4GGC, K4AZA or WA4WTX.

• • • •

SALISBURY: Ken (KJ4HF for W4EXU RPT.) talked to me the other day and told me he had changed his antenna oin the 446.500 machine to a used Stationmaster from commercial service. He and Sammy (KB4NPK) ran tests on it and the VSWR was very low, but the coverage was so poor that he was going to replace it with a Hustler G6 to see if that would help. Just tried the machine and it full scale here in High Point for the first time since it was moved from Woodleaf. Looks like the antenna change did the trick. 146.730 now has a 450. mhz remote base and a RC 850 controller on it. We have been hearing it up this way also. Looks like the remote base thing has really taken off around this part of N.C. This addition to repeaters really helps find hams on the road and let them stay in communications with home.

• • • •

GIBSONVILLE: WAYNE (WB4IKY) has his 220 machine back from the Hospital and things are starting to look up on 224.820. Wayne has had some of the same luck that other owners had this past summer. Old man weather did it's thing on the machine and a direct hit with lightning wiped out the works. As you know

Continued on Page 16

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North Carolina Traveling

Continued from Page 14

lightning can make a grown man cry especially when you do everything by the book and it still gets in where it not supposed to. He now has a new autopatch and hopes that he has things right now. He has a new spectrum 2000X that has not worked to well, the new machine is on 145.290 mhz. It's one of the new models and he has had a lot of trouble with it. Hang in there "IKY" and maybe things will change. Let us know how they do, I expect everyone will like to know.

• • • •

WALKERTOWN: Just got the phone with JIM (WA4YHH). He said he ordered the new receiver and transmitter boards from SPECTRUM last June and he has had nothing but trouble since. Seems that he lost his receiver first thing out of the box, then he lost the transmitter board. He says the manufacturer has had the gear more than he has and that his warranty will be out before he gets to try out his new 70 watt amp. Jim hopes things will be back in operations as soon as he receives the exciter board back. He will have a new autopatch and it will be private until he gets a few things worked out. If you should bring up the patch and get a busy tone that means HELLEN (WA4RQF the bos (xyl)) has the line tied up. HA, HA.

• • • •

DURHAM: CHARLIE (WA4WTX) reports that he has the RC 850 on the DURHAM 450 machine and they are thinking along the same lines that everyone else is on remote bases. I haven't been able to get into the machine since it was moved so I'll have to find out if it's on the air and let you know on the next report. Charlie reports that the GE master that he got from the High Point group will be ready for remote link to 443.100 Sauratown when he gets in a mount. He ran tests from the repeater site and they were real good. Said he tried to get someone up on freq. for a QSO but he could not raise anyone.

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WOODLEAF: JOHN (KB4KQI) reports that he has acquired an ICOM 450 repeater and plans to put it in service in Sammy's back yard on his tower. He will be running one of those dual band antennas that I mentioned earlier. Sammy (KB4NPV) reported he had already tuned it up and it looked real good on two meters as well as four-fifty. Now if the operation is what they think it will be, they expect to get in to Charlotte and back up to Greensboro and out towards Black Mountain. John plans to control the repeater with a RC 85 and sport an ICOM 22U for remote base. The repeater will be in service some time after the first of the year on a freq. of 443.300.

• • • •

Well this rounds up the report from ORIN (W4TBR) and myself for this quarter. Please don't forget and call on us if we can be of any help and we will need to know the news from your area.

Did You Know!

Virginia ranks 1st in Amateur population of the seven CVRA-SERA States. Second is North Carolina, followed by Georgia, Tennessee, South Carolina, West Virginia and East Kentucky. All 7 Districts have over 45,000 licensed Amateur operators.

Amateur Radio Takes On Steam

— by Carol Ryder, KA8ZWO

The members of the St. Albans Emergency Services Amateur Radio group located in St. Albans, West Virginia recently worked as the Safety Team aboard the New River Train excursion. We provided communications for dispatching paramedics and kept in constant communication with railroad personnel for any emergency situation which may arise (and believe me, they did).

We were responsible for the safety of approximately 1300 passengers aboard 30 cars and worked 13 hours each day for two consecutive weekends. We were able to maintain reliable communications on 2 meters.

Before we undertook this endeavor, it was not known if amateur radio had ever been involved in this type of emergency communications, so this may very well have been a first for amateur radio.

The New River Train excursion is an annual fall event sponsored by the Collis P. Huntington Railroad Historical Society, Inc. The New River Train is powered by the Nickel Plate Road Engine No. 765, a steam locomotive. The excursion cut through 147.6 miles of winding track through the West Virginia mountains and along New River, the second oldest river in the world.

Lee Ryder, KA8ZMF, was responsible for the coordination and recruitment of volunteers for this task. The rest of the Safety Team were: Jack Kibler, K8WMX, Vivian Kibler, WA8OKG, Karl Morris, WB8GDY, Carol Ryder, KA8ZWO, Jim Hewlett, WD8MKS, Mac McMillian, WD8OZT, Jim Young, Jr., KA8MTC, Jim Young, Sr., KA8WUK, and Wilbur Williams, K8MNA.

It was noted by a railroad safety official that it was the best emergency communications he had ever seen aboard **any** train.

Tennessee Council Of Radio Clubs To Meet at Oak Ridge

The Tennessee Council of Amateur Radio Clubs will have its annual meeting at the Oak Ridge Hamfest on Saturday, April 12th. The meeting will be starting at 1:30 p.m.

Any or all clubs wishing to send delegates (two are allowed) should send their registration prior to the meeting. For further information, and fees, contact, Tennessee Council or ARC, Secretary, Juanita Teffeteller, NG4J, 850 Armerine, Maryville, Tn. 37801.

New Directors & Vice Directors

New SERA Directors and Vice-Directors attending the January 10th meeting at Knoxville were formally installed in their position for the 1987-1988 calendar years.

Things went pretty much as recommended by the Nominating Committee, with only a couple of exceptions. In Georgia, Dave Shiplett was elected Vice-Director. WL7ACY will assist Jim Abercrombie, N4JA who was re-elected Director. In Virginia, Wally Burkette, WA4KXV was elected Director, and Don Williams, WA4K was appointed Vice-Director.

North Carolina opted for a whole new slate. F.L. Warford, K4AZA comes in as the new Director, with Orin Harding, WA4TBR, Vice Director.

South Carolina elected a new Director, Lennart Bjerken, WB4USY, however no Vice Director was named. This position remains open until Bjerken can find someone willing to assist as Vice-Director.

Tennessee returned with incumbents, J. Tom Park, WD4KWP, Director, assisted by Jean Giesler, W4TYU, Vice-Director.

Incumbents also returned to the Director and Vice-Director posts in Eastern Kentucky. Fred Jones, WA4SWF, assisted by Terry Estes, WB4ASZ.

The complete roster of Directors, Vice-Directors, and their appointed Assistant Directors is listed on the back cover of the Journal along with addresses and telephone numbers.

The Journal Now Has The Weddles!

The Journal is pleased to announce the appointment of Mary and Clyde Weddle, of Charlotte, N.C. as Contributing Editors. Mary, WC4T and Clyde, KF4WY are an outstanding writing team and presently are editors of the Charlotte Mecklenburg ARS "News", and the Shelby ARC "Shambrock". Both these newsletters are outstandingly done by the Weddle team.

We hope to have some humorous features from Clyde and some real serious stories about people and things by Mary. We have watched "Clyde's Law" for many years in their newsletters. They are actually funnier than "Murphy's Law". Hopefully, he will contribute some of his "Laws" to the Journal.

Welcome Clyde and Mary to the Repeater Journal team. We're pleased to have you with us, as we're sure our readers will be soon. (the editor)

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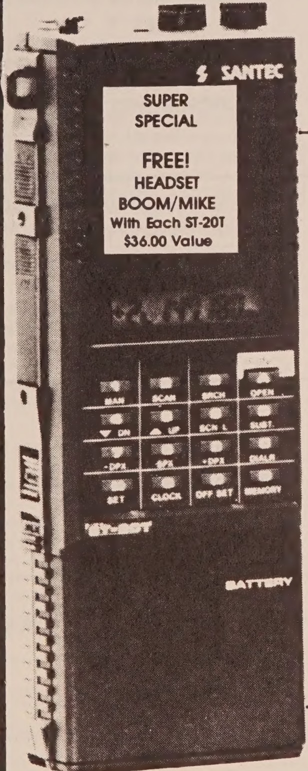

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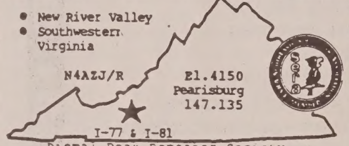

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Covering Central and Southside Va.

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MECKLENBURG AMATEUR RADIO SOCIETY, INC.

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146.34/146.94*
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146.175/146.775 RTTY
145.01 W4BFB-1 PACKET
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(BLUEFIELD REPEATER 145.49)

Bluefield Hamfest

SERA NEWS NET
Wednesday Nights at 8:30
North Carolina PCRN System

Look For Us and The News!

The SERA News Net, the largest on the East Coast is sponsored by CVRA-SERA in cooperation with the Piedmont Coastal Repeater Network of NC, and the N4VL anchor repeater for the NW one-way linking system. News moderator is K4MOB, Wayne, Editor, Repeater Journal.

Tennessee Tidbits

— by Tom Park, WD4KWP

November & December have been interesting ham months around here. The second Saturday morning of November was the Memphis repeater group meeting. That afternoon Bill Gilley & I stayed to see what was going on with the packet group which was having its formation meeting. (That group has taken the name MAPS, Memphis Area Packet Assoc.)

• • • •

At the end of December, the Middle Tennessee Packet Assoc. got together in Nashville to discuss the future of the new mode in this area. This group has already discussed plans for a set of LANS to better serve the area.

• • • •

WA4CPF from Huntsville, Alabama was at the Nashville meeting with several ideas on setting up a 430 Mhz backbone system across the state. This is needed to relieve traffic on 145.01 (National Trunking Frequency). It is hoped that many of the PBBS's that have popped up will acquire the new dual port TNC's so they can tie into the backbone system.

• • • •

Word has it that the Jackson group is also in the process of forming.

One thing that was stressed at both the Nashville & Memphis meetings was the need to plan & coordinate before construction of the new machines started. No one wants to end up with the mess that we have on 2 meter voice.

If this has gotten you interested in all the goings on, don't be fearful about getting started. The one thing that has been said everywhere that I have been is that if you have been on packet one week you are considered an advanced operator, if three weeks an expert.

• • • •

I have appointed an assistant to help me with the coordination of the packet LANS & link systems throughout this state. Write or connect via MM with TIM AVAGE WA4PTZ, 136 Jill Street, Gallatin, Tn. 37066 if you want to help setup the LAN for your area.

• • • •

In other matters: I would like to formally thank J.D. Brown N4DRL of Eads for serving as my West Tennessee assistant for the last several months. He has been a great help in trying to keep up with that part of the state. J.D. stepped down from his position at the Memphis repeater meeting in November to make it easier for me to appoint a new assistant for that area. My new West Tennessee assistant is NEAL TALLEY WA4EAI, 1163 Echles Road, Memphis, Tn. 38111.

Associate Membership Totals are Down

David Ward, KA4LVO, Associate Membership Chairman reported that the total of Associate Memberships in CVRA-SERA were lower on Jan. 1, 1987 than they were for the same period a year ago. It seems some "lost" the "Spirit of '86" and didn't renew yet. Apparently our campaign to increase membership last year failed. . . miserably. Anyone have any ideas of how to get the word out?

Memphis Area Repeater Users Have Meeting

— by J. Tom Park, WD4KWP

On November 8, a group of approximately 25 Memphis Tennessee area repeater users & owners met together with Bill Gilley & me to discuss SERA & area repeater problems in general. The meeting was productive in that everyone had a chance to share their problems & complaints with the end result of unity. In the end, even those hams that believed that there were too many problems to work out concluded that the best action for now was to agree to a "six-months cooling off period" while everyone attempts better communication and cooperation.

In years past, communication has not always been the best between that area & SERA. This occurred due to the fact that the movement towards modern repeater coordination started in East Tennessee. (Tennessee is often known as the three states of Tennessee.)

After several hours of discussions, it was decided that Neal Talley, WA4EAI of Memphis would take the job of West Tennessee assistant. Neal's main job will be to act as the local eyes & ears for me. Coordination questions may be directed to either or both of us.

I believe that voluntary cooperation is one of the strongest ideas that amateur radio has going. It should always be the first method of problem solving. I commend all the Memphis hams for their desire to correct past problems.

TCOARC Accepting Nominations For Tennessee Ham of the Year

Nominations for Tennessee Ham of the Year are now being taken by the Tennessee Council of Amateur Radio Clubs. Any ham with a valid amateur license, residing in Tennessee is eligible for nomination.

Deadline for nominations is May 1, endorsements (by clubs only) may be received after that date. The award will be made at Cedars of Lebanon Hamfest, the last Sunday in August.

Nominations should be sent to the Council secretary, Juanita Teffeteller, NG4J, 850 Amerine, Maryville, Tn. 37801. Data accompanying nomination should be complete as possible, and should contain the address and county of the nominee. Please give full details of the nominee's military service (if any) his/her activities in nets., clubs, schools, etc. A good black & white photo of the nominee in his shack or with some sort of background would be appreciated.

An Editorial Comment. . .

Majority Support Needed by SERA

According to the FCCs Frequency Coordination Docket, a Coordinating organization is determined by the Amateurs in the area in which it Coordinates. In other words, for "official recognition" CVRA-SERA must be recognized by the Amateur radio operators of Virginia, North Carolina, South Carolina, Georgia, West Virginia, Tennessee and East Kentucky.

The Commission vaguely comments that recognition must be made "by the Amateurs in the area served". They do not say whether there should be a majority, or whether ALL (which would be near impossible), or just how many should voice support for an organization of Coordination to be recognized.

We do know one thing, CVRA-SERA is not supported by nearly enough Amateurs as it should be. There are nearly 50,000 Amateurs licensed in our service area. Assuming that only half are active on VHF/UHF, or even active at all, CVRA-SERA has "official" support of less than 20% of this population.

We have tried every promotion (with our limited funds) that we can think of. We have found that the biggest success is the actual eye-to-eye contact with a person, explaining the organization and soliciting their membership on the spot, as being most fruitful in gaining new membership.

We now call on you--our faithful members. Please help us. CVRA-SERA is NOT in a financial bind. We are in a RECOGNITION bind. The only way we can show the FCC our power and support is through **membership** percentages.

You who are already members are the best "salesmen" we could ever have. If you believe in CVRA-SERA. If you feel as we do. We ask that you (each of you) go to your club, your nets, your hamfests, anywhere there is a gathering and speak out for CVRA-SERA. Get us Associate Members. Let's bring up the percentages. We must! We very rarely ask you for much, but many of us give you a lot - our time, expertise, talents, and faith. Won't you do as much for us. We know you feel as we do. We know you love CVRA-SERA as we do. Thank you for your help! We'll ALL benefit.

— Wayne C. Williams, Editor

Did You Know!

There were over 2,000 corrections, changes or additions to the February Repeater Index for this issue, since the November edition.

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DISTRIBUTION OF REPEATERS BY FREQUENCY

The By-City Index Appears On Following Pages

49 = [illegible]

2 METERS

5.01 /PKET	[illegible]HK	PRESTONSBURG	EKY
	JF	ADEL	GA
	CNV	AUGUSTA	GA
	EAW	CLARKSVILLE	GA
	KAU	COHUTTA	GA
	ABT	COLUMBUS	GA
	GQX	CUMMING/SAWNEE	GA
	GQX	FORSYTH	GA
	TXT	HAMPTON	GA
	ICT	PERRY	GA
	KIN	PERRY	GA
	ULJ	PINE MT/HAMILTON	GA
	ICT	ROBERTA	GA
	LYV	SYCAMORE	GA
	AGT	WARNER ROBINS	GA
	BFB	CHARLOTTE	NC
	CEB	CONCORD	NC
	CYP	GOLDSBORO	NC
	ITL	RALEIGH	NC
	BWC	RALEIGH	NC
	RXG	SAURATOWN MT	NC
	OKW	SPIVEY MTN	NC
	FX	ANDERSON	SC
	LYF	CHARLESTON	SC
	EOY	COLUMBIA	SC
	TKM	CONWAY	SC
	ULH	FLORENCE	SC
	WJR	LANCASTER	SC
	P	SUMTER	SC
	BFS	ELIZABETHTON	TN
	PTZ	GALLTN/MUSIC MT	TN
	NK	KNOXVILLE	TN
	YON	KNOXVL/CROSS MT	TN
	MJM	PIKEVILLE	TN
	YXA	SHORT MT	TN
	AG	ACCOMAC	VA
	BLD	BEAR DEN MT	VA
	MZ	BLUEFIELD	VA
	TFZ	CHARLOTTESVILLE	VA
	PGI	COVINGTON	VA
	FRV	FORK MTN	VA
	OB	FREDERICKSBURG	VA
	PB	GARRISONVILLE	VA
	UMI	HAMPTON	VA
	UMI	HAMPTON	VA
	LKQ	LYNCHBURG	VA
	TSC	MIDDLEBURG	VA
	BBF	ONEIDA	VA
	ARO	RICHMOND	VA
	FHL	ROANOKE	VA
	CSG	STEPHENS CITY	VA
	KXV	VIRGINIA BEACH	VA
	JFI	WASHINGTON, D.C.	VA
	FQR	WOODBRIDGE	VA
	VR	WYTHE/HILL/PUL	VA
	EUV	HUNTINGTON	WV
	FQJ	LOGAN/BLAIR MT	WV
	BHI	MORGANTOWN	WV
	SLI	ST ALBANS	WV
	ZR	TERRA ALTA	WV
5.03 /PKET	BXO	LAGRANGE	GA
	HWU	COLUMBIA	SC
	AG	ACCOMAC	VA
5.05 /PKET	ICT	MACON	GA
	KIN	PERRY	GA
	LYV	SYCAMORE	GA
	ACY	WARNER ROBINS	GA
	ACY	WARNER ROBINS	GA
	ARO	PETERSBURG	VA
5.07 /PKET	TH	COLFAX	NC
	USE	WOODBRIDGE	VA
5.09 /PKET	MM	ALBANY	GA
	GQX	AMICACOLA MT	GA
	KAU	COHUTTA	GA
	EO	FAIRMONT	GA
	G	ROME	GA
5.33 /PKET	MQD	MEMPHIS	TN
7.43 /4.93	M	LYNCHBURG	VA
4.51 /5.11	TUN	AUGUSTA	GA
	VTA	DECATUR	GA
	RXG	SAURATOWN MT	NC
	JSD	KNOXVILLE	TN
	YPE	RICHMOND	VA
	MCR	SALT ROCK	WV
4.53 /5.13	SEX	NEWNAN	GA
	VLP	VALDOSTA/TIFTON	GA
	YNF	AHOSKIE	NC
	CS	GREENWOOD/HODGES	SC
	CMY	CHATTANOOGA-RTTY	TN
	OAK	LAFOLLETTE	TN
	VL	GALAX/LKOUT MT	VA
	FHE	BUCHANNON	WV
4.55 /5.15	IWZ	PIKEVILLE	EKY
	MM	ALBANY	GA
	AQL	ATLANTA/GA TECH	GA
	LI	MILLEDGEVILLE	GA
	UDS	MORENTN/HI PK	NC
	RJC	DECATUR-PONE KB	TN
	HCK	FRANKLIN	TN
	JE	JAMESTOWN	TN
	ARO	CREWE	VA
	DBN	MARMET/BEE MT	WV
	FSE	MARTINSBURG	WV
4.57 /5.17	DIW	JONESBORO	GA
	JWO	NEWTON	NC
	EKK	OXFORD	NC
	QJF	COLUMBIA	SC
	SK	LENOIR CITY	TN
	LHO	SMYRNA	TN
	DKL	BOLT MT	WV
4.59 /5.19	IQT	BIRMINGHAM	AL
	ULJ	PINE MT/HAMILTON	GA
	BVW	MT MITCHELL	NC
	XX	JASPER	TN
	DOR	LEBANON	TN
	JGY	WHEELING	WV
4.61 /5.21	U	DEAN	EKY
	PSZ	TYRONE	GA
	GGK	LEWISVILLE	NC
	ITL	TRENTON	NC
	NEP	GASTON	SC
	KFD	KNOXVILLE	TN
	FEQ	HUNTINGTON	WV
4.63 /5.23	PPM	MIDDLESBORO	EKY
	JF	ADEL	GA
	UJ	DALTON	GA
	NLX	SAVANNAH	GA
	BFB	CHARLOTTE	NC
	RA	MURFREESBORO	TN
	DBB	BEDFD/APL ORCH	VA
	DRV	LOGAN/BLAIR MT	WV
4.65 /5.25	BZJ	DALTON	GA
	KQK	FOREST PARK	GA
	AZM	GOLD HILL/GBO	NC
	URP	CHARLESTON	SC
	DRL	FISHERVILLE	TN
	AJS	NASHVILLE	TN
4.67 /5.27	PN	WALESKA/PNLGMT	GA
	KNI	HENDSVL/BERWLW M	NC
	BEA	RALEIGH	NC
	WZK	HENDERSONVILLE	TN
	CJX	SEV/SHIELDS MT	TN
	JCE	MANASSAS	VA
	OG	CRAIGSVILLE	WV
4.69 /5.29	ICN	PRESTONSBURG	EKY
	DRQ	ATLANTA	GA
	BFB	CHARLOTTE	NC
	FTB	GIBSONVILLE	NC
	PPD	SHALLOTTE	NC
	VCM	CHATTANOOGA	TN
	SQC	ELZ/JC/HLST MT	TN
	FFM	NASHVILLE	TN
	NDH	CHESAPEAKE	VA
4.71 /5.31	CEK	COLUMBUS	GA
	JDR	STOCKBRIDGE	GA
	ITL	BURLINGTON	NC
	ITL	ROANOKE RAPIDS	NC
	RFA	ROCK HILL	SC
	GRC	ATHENS	TN
	SC	JACKSON	TN
	FSC	ALEXANDRIA	VA
	BZS	LAYLAND/MANN MT	WV
4.73 /5.33	OGE	JONESBORO	GA
	J	MT AIRY/TRNR MT	NC
	DFP	BAMBERG	SC
	GMT	CUMBERLAND CTY	TN
	TEM	KNOXVL/SHARPS RG	TN
	QQF	FARMVILLE	VA
	VNQ	PARSONS	WV
	FR	WILLIAMSON	WV
4.75 /5.35	R	HARLAN	EKY
	CPL	DECATUR	GA
	EV	ROSSVILLE	GA
	AOS	CHARLOTTE	NC
	DAN	GREENVILLE	NC
	Y	HUMBOLDT	TN
	JYD	NASHVILLE	TN
	AZJ	BLAND	VA
	AQD	FALLS CHURCH	VA
4.77 /5.37	ACH	COLUMBUS-RTTY	GA
	IZF	JASPER	GA
	AGN	N. WILKESBORO	NC
	GZE	KNOXVILLE	TN
	CBF	MT JULIET	TN
	IMI	GLOUCESTER	VA
	FWL	BECKLEY/EOC	WV
4.79 /5.39	HYB	GRIFFIN	GA
	NJ	MONROE	NC
	TZ	CHATTANOOGA	TN
	EPC	GREENEVILLE	TN
	DOR	HERMITAGE	TN
	VM	STANTONVILLE	TN
	ZIV	GALAX	VA
	EOM	WESTON	WV
4.81 /5.41	PME	ATLANTA/BELL	GA
	XO	HIGH POINT	NC
	KNU	WILLIAMSTON	NC
	TUO	GREENEVILLE	TN
	VIP	MEMPHIS	TN
	LND	BUCKHANNON	WV
4.83 /5.43	UPC	ATLANTA/SWEAT MT	GA
	OLL	MACON	GA
	ITL	SPARTA/GREEN MT	NC
	HWU	COLUMBIA	SC
	GBI	KNOXVILLE	TN
	SQT	RICHMOND	VA
	WHQ	CHARLESTON	WV
	LG	MORGANTOWN	WV
4.85 /5.45	TX	LEXINGTON	EKY
	BOC	ATLANTA	GA
	KBD	JACKSONVILLE(FL)	GA
	PLY	CROWDERS MT	NC
	WTX	DURHAM	NC
	GRW	NEWPORT	NC
	SIR	BENTON	TN
	E	SPRING HILL	TN
	SXZ	WELCH	WV
4.87 /5.47	CLA	SWEAT MTN	GA
	GIC	SAURATOWN MT	NC
	OXE	INMAN	SC
	GBI	KNOXVILLE	TN
	OMO	MOUNTAIN CITY	TN
	ARK	NASHVILLE	TN
	EFJ	ARLINGTON	VA
	FG	KINGSTON/LICK KB	WV
4.89 /5.49	JA	AUGUSTA	GA
	RWS	CORDELE	GA
	QPL	MARIETTA	GA
	ZCZ	FRANKLIN	NC
	CBI	RALEIGH	NC
	ABW	RKY RDG/WALLACE	SC
	KKO	MCMINVL/SHT MT	TN
	KOG	MEMPHIS	TN
	MOP	BLUEFIELD	VA
	MOP	BLUEFIELD	WV
6.895/6.295	T	HARTWELL	GA
6.925/6.325	ASI	COVINGTON	GA
6.985/6.385	HHH	ELLIJAY	GA
6.01 /6.61	FIZ	COLUMBUS	GA
	JEH	CONYERS	GA
	BDP	WARNER ROBINS	GA
	SNI	GREENSBORO	NC
	JMS	NEW BERN	NC
	GY	CHELSEA	SC
	NYK	GRNVLE/CSRS HD	SC
	IQM	MYRTLE BEACH	SC
	CMY	CHATTANOOGA	TN
	PCD	NASHVILLE	TN
	LSP	BRUMLEY MT	VA
	GSP	CHESAPEAKE	VA
	WWQ	LYNCHBURG	VA
	MZI	GASSAWAY	WV
6.025/6.625	UPE	UNION CITY	GA
	JWP	VIDALIA	GA
	QWK	LARNBRG/SCOTLAND	NC
	FJX	CHESTER	SC
	ZQX	MARTIN	TN
	AVW	NEW MARKET	VA
	MZ	BLUFLD/FLAT TOP	WV
6.04 /6.64	YZY	PINEVILLE	EKY
	LWT	AUGUSTA	GA
	FWD	CARROLLTON	GA
	GVG	WAYCROSS	GA
	YAO	HENDERSONVILLE	NC
	DW	RALEIGH	NC
	GIC	WINSTON-SALEM	NC
	P	SUMTER	SC
	RX	CROSSVILLE	TN
	GYS	MEMPHIS	TN
	NTM	NASHVILLE	TN
	WIC	FINCASTLE	VA
	BIW	MARION	VA
	QEY	RICHMOND	VA
	EZR	HUNTINGTON/CHAS	WV
6.055/6.655	NFP	MARIETTA	GA
	CEB	CONCORD/KANNAP.	NC
	VTX	ELIZABETH CITY	NC
	ABU	BROWNSVILLE	TN
	Z	CHATT/SIGNAL MT	TN
	PDP	ALEXANDRIA	VA
	ISI	ALTAVISTA	VA
	HON	SPRUCE KNOB	WV
6.06 /6.66	BKM	MACON	GA
6.07 /6.67	VHF	HAZARD	EKY
	NSO	GAINESVILLE	GA
	EQL	JESUP	GA
	ZIN	BURLINGTON	NC
	TMT	CHERRY MT	NC
	SJ	HALIFAX	NC
	ILW	BRISTOL	TN
	UCE	COOKEVILLE	TN
	BGW	LAFOLLETTE/WMT	TN
	NTM	NASHVILLE S.W.	TN

REPEATERS BY FREQUENCY

	HZS	BARREN SPRINGS	VA
	ZR	LEXINGTON	VA
	NTG	WILLIAMSBURG	VA
	JNU	RAVENSWOOD	WV
6.08 /6.68	IQT	LEEDS	AL
6.085/6.685	IWL	ADAIRSVILLE	GA
	UWN	FAYETTEVILLE	GA
	NBR	GRIFTON	NC
	O	STATESVILLE	NC
	CO	NEWBERRY	SC
	PIO	LENOIR CITY	TN
	Q	WAVERLY	TN
	HTA	VIENNA	VA
6.10 /6.70	JO	GRAYSON	EKY
	MM	ALBANY	GA
	OOM	JASPER	GA
	DOJ	MILLEDGEVILLE	GA
	NLX	SAVANNAH	GA
	CID	DUNN	NC
	PAX	LANCASTER	SC
	UOT	MANCHESTER	TN
	UFT	MEMPHIS	TN
	YGM	UNION CITY	TN
	WQS	DANVILLE/WHT OAK	VA
	BHH	DUFFLD/POWLL MT	VA
	D	NORFOLK	VA
	XD	STAUNTON	VA
	JNU	RAVENSWOOD	WV
6.115/6.715	ABZ	RINGGOLD	GA
	GGN	MILLERS CREEK	NC
	KDC	SPRING LAKE	NC
	NEP	COLUMBIA	SC
	I	BLACKSBURG	VA
	TXB	STERLING	VA
	GL	SHERRARD	WV
6.13 /6.73	SWF	LOUISA	EKY
	MM	ALBANY	GA
	TVE	BRUNSWICK	GA
	FT	MARIETTA	GA
	NC	SWEAT MTN	GA
	BWC	RALEIGH	NC
	EXU	SALISBURY	NC
	VNK	WILMINGTON	NC
	FKJ	N. AUGUSTA	SC
	BJY	SIMPSONVILLE	SC
	IOB	KNXVL/ENG MT	TN
	VZ	LEBANON	TN
	DAZ	MEMPHIS	TN
	DHO	HAMPTON	VA
	AVZ	ALDERSON	WV
6.145/6.745	BKF	ATHENS	GA
	N	DILLON/PEE DEE	SC
	HF	DYERSBURG	TN
	QOJ	ROANOKE/POOR MT	VA
	FMD	BURLINGTON	WV
6.16 /6.76	BOC	ATLANTA/STONE MT	GA
	APS	VALDOSTA	GA
	BVW	ASHVL/MT PISGAH	NC
	MSS	GREENSBORO	NC
	S	SWANSBORO	NC
	THL	WILSON	NC
	ILT	CHARLESTON	SC
	OCB	FT JACKSON	SC
	PQP	NASHVILLE	TN
	TFZ	CHARLOTTESVILLE	VA
	STE	LYNCHBURG	VA
	VA	HUNTINGTON	WV
	CUL	MORGANTOWN	WV
	JDH	WHEELING	WV
6.175/6.775	KE	MARIETTA	GA
	OCB	WRENS	GA
	BFB	CHARLOTTE/RTTY	NC
	DHW	ELIZABETHTOWN	NC
	JVO	PULASKI/MUS MT	TN
	EMS	WYTHEVILLE	VA
6.19 /6.79	GEL	PIKEVILLE	EKY
	DMK	FOLKSTON	GA
	KOW	MOULTRIE	GA
	SEX	NEWNAN	GA
	VYX	SWAINSBORO	GA
	LZD	CLINTON	NC
	LDK	SAURATOWN MT	NC
	FVV	ANDERSON/SAS MT	SC
	IVE	CHARLESTON	SC
	DSK	CHATTANOOGA	TN
	FH	JOHNSON CITY	TN
	SQE	NASHVILLE	TN
	SD	CHESAPEAKE	VA
	LBL	FAIRFAX	VA
	CFT	OAK HILL	WV
6.205/6.805	LT	MILLEDGEVILLE	GA
	EWG	FAYETTEVILLE	NC
	NOQ	GASTONIA	NC
	NNA	GUTHRIE (TN/KY)	TN
	HTI	COVINGTON	VA
7.405/6.805	HCY	MAGGIE VALLEY	NC
6.22 /6.82	MM	ALBANY	GA
	DOC	ATLANTA	GA
	PZA	ROARING GAP	NC
	GMP	WILMINGTON	NC
	NYK	GRNVLE/PARIS MT	SC
	OAH	LAKE CITY	TN
	BS	MEMPHIS	TN
	UEW	WINCHESTER	TN
	RKC	WINCHESTER	VA
	IFS	CHARLESTON	WV
	FMD	CLARKSBURG	WV
6.235/6.835	UA	AUGUSTA	GA
	P	HAMPTON	GA
	QCO	ASHEVILLE	NC
	JXG	NAGS HEAD/BODIE	NC
	IAT	WADESBORO	NC
	AXH	BLACKSTONE	VA
	CYZ	HAZEL MT	VA
7.435/6.835	BPV	HIGH POINT	NC
6.25 /6.85	IXA	PIKEVILLE	EKY
	DVJ	DALLAS	GA
	R	LAGRANGE	GA
	HON	WARNER ROBINS	GA
	CYP	GOLDSBORO	NC
	MDW	HICKORY/BRT. MT	NC
	YFT	REIDSVILLE	NC
	ULH	FLORENCE	SC
	KJH	GTLBG/COVE MTN	TN
	KOG	MEMPHIS	TN
	PCD	NASHVILLE	TN
	MG	PORTSMOUTH	VA
	ZBP	STAUNTON	VA
	BO	BECKLEY/FLAT TOP	WV
	WYH	BUCKHANNON	WV
6.265/6.865	DKY	MADISON	GA
	YF	BIG KNOB/GREY CT	SC
	G	FAYETTEVILLE	TN
	MZ	SALT POND/MT LK	WV
7.465/6.865	ZRS	WAXHAW	NC
6.28 /6.88	KUC	PRESTONSBURG	EKY
	AGO	COLUMBUS	GA
	BTI	MARIETTA	GA
	NKL	QUITMAN	GA
	HBB	SAVANNAH	GA
	ITL	RALEIGH	NC
	NYR	SHELBY	NC
	AVU	COLUMBIA	SC
	CYZ	BRISTOL	TN
	ETE	MEMPHIS	TN
	PCD	NASHVILLE	TN
	SKH	OAK RIDGE	TN
	CYZ	BRISTOL	VA
	ZBE	RICHMOND	VA
	PDL	SALEM	VA
	CQV	CHARLESTON	WV
6.295/6.895	YFF	MADISON	NC
	OOA	WAXHAW	NC
	KXV	VIRGINIA BEACH	VA
6.30 /6.90	SP	FAIRMONT	WV
6.31 /6.91	GFY	MOREHEAD	EKY
	FOW	CLEVELAND/LONG	GA
	HYB	GRIFFIN	GA
	ZGQ	AHOSKIE	NC
	MOE	ASHVL/SPIVEY MT	NC
	YZF	FAYETTEVILLE	NC
	IZM	LEXINGTON	NC
	BWZ	WHITE HALL	SC
	DQU	SAVANNAH	TN
	YXA	SHORT MTN	TN
	NWP	FARMVILLE	VA
	OVC	JONESVILLE	VA
	TUE	MT. LK/BALD KNB	VA
	FMD	TYSONS CORNER	VA
	ULB	MCMECHEN	WV
6.325/6.925	CWZ	ROCK HILL	SC
	TFZ	CHARLOTTESVILLE	VA
	GJG	DANVILLE(DCC)	VA
	OGY	PRINCETON/PIPEST	WV
6.34 /6.94	Y	ASHLAND	EKY
	N	AUGUSTA	GA
	VO	ROME	GA
	RVB	WRIGHTSVILLE	GA
	DLH	BURGAW	NC
	BFB	CHARLOTTE	NC
	BFT	DURHAM	NC
	ACY	MANTEO/WANCHESE	NC
	ZAS	MT AIRY-RTTY	NC
	IQQ	GREENVILLE	SC
	GBI	KNOXVILLE	TN
	BN	MEMPHIS	TN
	PCD	NASHVILLE	TN
	UMI	HAMPTON	VA
	ZA	RICHMOND	VA
	QET	ROANOKE	VA
	CSW	NEW MARTINSVILLE	WV
	VKB	SUMMERSVILLE	WV
	JN	WEIRTON	WV
7.54 /6.94	CSW	NEW MARTINSVLLE	WV
6.355/6.955	KIN	PERRY	GA
	EFL	YNG HRS/RCKY TP	GA
	ULA	ROCKINGHAM	NC
	MZ	ONEIDA PEAK/BLF	VA
6.37 /6.97	OD	ATLANTA	GA
	HBB	SAVANNAH	GA
	ZAS	MT AIRY	NC
	JQ	SMITHFIELD	NC
	SZ	ANDERSON	SC
	ISM	FLORENCE	SC
	TRC	KNGSPT/BAYS MT	TN
	CPJ	MCMINNVILLE	TN
	BEZ	MEDINA	TN
	SKH	OAK RIDGE	TN
	FPM	MANASSAS	VA
	WRN	STAUNTON	VA
	KXV	VIRGINIA BEACH	VA
	DRV	LOGAN/WARD RK MT	WV
	CRW	PARKERSBURG	WV
6.385/6.985	I	AUGUSTA	GA
	TOV	PRESTON	GA
	UUB	ST. MARYS	GA
	OGB	ALBEMARLE	NC
	ROZ	OLD FORT	NC
	ESG	MT PLEASANT	SC
	CA	ROANOKE/POOR MT	VA
6.40 /7.00	NNO	ATLANTA	GA
	LDK	HIGH POINT	NC
	FVO	JACKSONVILLE	NC
	YLT	MARION	SC
	YXZ	PICKENS	SC
	FZJ	MEMPHIS	TN
	HMT	SUFFOLK	VA
	GDY	ST ALBANS	WV
7.60 /7.00	DXZ	LANETT	AL
	WAU	ELKHORN CITY	EKY
	LZQ	HINESVILLE	GA
	KMG	BLOUNTVILLE	TN
	ZOK	CHATT/SIGNAL MT	TN
	TEQ	CLARKSVILLE	TN
	ZR	TERRA ALTA	WV
7.615/7.015	FOW	CLEVELAND/LONG	GA
	MST	WARNER ROBINS	GA
	KPF	LK NORMN/CLT	NC
	UMU	SUMTER	SC
	K	NASHVILLE	TN
	LNT	FREDRICKSBURG	VA
6.43 /7.03	YTZ	ROCK HILL	SC
	LGH	LEXINGTON	TN
	ODR	MILLINGTON/NB	TN
	JST	RICHMOND	VA
7.63 /7.03	REI	ATLANTA/AIRPORT	GA
	GG	GREENSBORO	NC
	DTS	ROANOKE RAPIDS	NC
	FOF	BARNWELL	SC
	JYR	MYRTLE BEACH, N	SC
	NIQ	FAYETTEVILLE	TN
	ZJM	MEMPHIS	TN
	PRQ	MORRISTOWN	TN
	BLD	WAYNESBORO	VA
	IT	MULLENS/HRNDN MT	WV
	ECC	ST MARYS/BENS R	WV
6.445/7.045	FLR	FAYETTEVILLE	NC
	CNS	ROB/JOANNA BLD	NC
	YVM	ARLINGTON	VA
7.645/7.045	TYM	METTER	GA
	JRL	STATSVL/ASBRY MT	NC
	WA	RADFORD	VA
	WRN	STAUNTON/EL. KB	VA
	SBC	VIRGINIA BEACH	VA
6.06 /7.06	JYR	MADISON	WV
6.46 /7.06	CQ	CHARLOTTE	NC
	MQQ	MEMPHIS	TN
	LBM	SOUTH BOSTON	VA
	WL	PRINCETON	WV
7.66 /7.06	ICT	MACON	GA
	CLA	ROSWELL	GA
	UCJ	THOMASVILLE	GA
	LED	MACO	NC
	VFR	SUMTER	SC
	LYF	GRNVLE/GRYSTN	TN
	QEB	SHELBYVILLE	TN
	ECM	CHESTERFLD CO	VA
	KNM	POINT PLEASANT	WV
6.475/7.075	VGZ	BURLINGTON	NC
7.675/7.075	JXR	SNELLVILLE	GA
	HBQ	BURLINGTON	NC
	GBI	KNOXVILLE	TN
	PNT	WAYNSBR/BEAR DEN	VA
7.69 /7.09	NDB	REDBUSH	EKY
	CVE	ST SIMONS ISL	GA
	GDF	GREENVL/ESTN NC	NC
	AQY	ORANGEBURG	SC
	OXE	SPARTANBURG	SC
	BSA	SPARTA/BON AIR	TN
	VL	GALAX/BRIRP MT	VA
7.705/7.105	YSB	ATLANTA	GA
	DEC	MARION/BEAR WLW	NC
	JCK	MONROE/UCARS	NC
	JBJ	BEDFORD	VA
	VNQ	MT STORM	WV
6.09 /7.11	ZLR	LOGAN	WV
7.72 /7.12	ASZ	WINCHESTER	EKY
	MM	ALBANY	GA
	S	AUGUSTA	GA
	CMA	CEDARTOWN	GA
	REW	GAST/SPCR MT	NC
	ACP	MAYODAN	NC
	EWL	ROCKY MOUNT	NC
	YGE	MYRTLE BEACH	SC
	DAZ	MEMPHIS	TN
	EAJ	OAK RIDGE	TN
	FAF	CULPEPPER	VA
	VNQ	BRIDGEPORT	WV
	VKI	DUNBAR	WV
7.735/7.135	BZJ	DALTON	GA
	JFE	VALDOSTA	GA
	CJS	BREVARD/RICH MTN	NC
	ABW	CHERAW	SC
	EDS	ALAMO	TN
	AZJ	PEARISBURG	VA
	HB	RICHMOND	VA
7.745/7.145	KNE	MT. STERLING	EKY
7.76 /7.16	MWA	DOG FORK MT	EKY
	TFW	ALBANY	GA
	BYK	CUMMING/SAWNEE	GA
	VLY	MORGANTON	NC
	ITL	RALEIGH	NC
	BJM	MONCKS CORNER	SC
	SDT	SIMPSONVILLE	SC
	KUB	MEMPHIS	TN
	PCD	NASHVILLE	TN

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PLEASE NOTE!
The letters column between the frequency and city indicate suffixes of the repeater callsign.

CVRA-SERA REPEATER INDEX LISTINGS BY CITY-BY-STATE

NORTH CAROLINA REPEATERS

2 METERS

AHOSKIE	WB4YNF	144.53	145.13	N	A
AHOSKIE	WA4ZGQ	146.31	146.91	N	PA
ALBEMARLE	K4OGB	146.385	146.985	N	
ASHEBORO	KJ4AV	147.855	147.255	•	PAL
ASHEVILLE	WA4QCO	146.235	146.835	•	A
ASHVL/MT PISGAH	WA4BVW	146.16	146.76	•	
ASHVL/SPIVEY MT	W4MOE	146.31	146.91	•	A
BENSON	AK4H	147.87	147.27	D	PA
BOONE/RICH MTN	WA4KDB	147.96	147.36	D	
BREVARD/RICH MTN	WB4CJS	147.735	147.135	•	A
BURGAW	W4DLH	146.34	146.94	D	EA
BURLINGTON	K4ITL	144.71	145.31	D	PL
BURLINGTON	WB4ZIN	146.07	146.67	N	A
BURLINGTON	W4VGZ	146.475	147.075	N	EA
BURLINGTON	WA4HBQ	147.675	147.075	N	EA
BURNSVILLE	N4YN	147.975	147.375	N	A
CARTHAGE	W4NIW	147.84	147.24	•	
CHARLOTTE	W4BFB	144.63	145.23	D	
CHARLOTTE	W4BFB	144.69	145.29	D	A
CHARLOTTE	WA4AOS	144.75	145.35	N	O
CHARLOTTE	W4BFB	146.34	146.94	D	A
CHARLOTTE	W4CQ	146.46	147.06	D	A
CHARLOTTE	WD4PLY	147.99	147.39	N	PA
CHARLOTTE/RTTY	W4BFB	146.175	146.775	D	R
CHERRY MT	W4TMT	146.07	146.67	N	
CLINTON	WA4LZD	146.19	146.79	N	
CONCORD/KANNAP.	K4CEB	146.055	146.655	D	PA
CROWDERS MT	WD4PLY	144.85	145.45	N	
DUNN	N4CID	146.10	146.70	•	PA
DURHAM	WA4WTX	144.85	145.45	D	AL
DURHAM	WA4BFT	146.34	146.94	N	A
EDEN/MAYODAN	WA4ACP	147.84	147.24	N	O
EDEN/STONEVILLE	WA4QBG	147.99	147.39	•	
ELIZABETH CITY	WA4VTX	146.055	146.655	N	A
ELIZABETHTOWN	N4DHW	146.175	146.775	N	
FAYETTEVILLE	N4EWG	146.205	146.805	D	
FAYETTEVILLE	WB4YZF	146.31	146.91	D	A
FAYETTEVILLE	WA4FLR	146.445	147.045	•	CR
FAYVLLE/FT BRAGG	W4LPL	147.93	147.33	•	
FOREST CITY	WA4BKU	147.84	147.24	N	
FRANKLIN	W4ZCZ	144.89	145.49	•	
FRANKLIN	W4GHZ	147.84	147.24	•	
GAST/SPCR MT	W4REW	147.72	147.12	D	A
GASTONIA	K4NOQ	146.205	146.805	•	PA
GIBSONVILLE	WD4FTB	144.69	145.29	•	A
GLENDALE SPGS	W4YJG	147.90	147.30	N	O
GOLD HILL/GBO	N4AZM	144.65	145.25	D	A
GOLDSBORO	K4CYP	146.25	146.85	•	A
GREENSBORO	K4SNI	146.01	146.61	•	A
GREENSBORO	WA4MSS	146.16	146.76	D	
GREENSBORO	W4GG	147.63	147.03	•	PA
GREENSBORO	W4BUZ	147.81	147.21	N	
GREENVILLE	WA4DAN	144.75	145.35	•	L
GREENVILLE	K4ROK	147.975	147.375	•	
GREENVL/ESTN NC	W4GDF	147.69	147.09	•	
GRIFTON	W4NBR	146.085	146.685	N	
HALIFAX	AA4SJ	146.07	146.67	D.	A
HENDERSONVILLE	WB4YAO	146.04	146.64	N	L
HENDSVL/BERWLW M	WA4KNI	144.67	145.27	•	A
HENDSVL/PINCK MT	WA4KNI	147.855	147.255	•	A
HICKORY/BRT. MT	WA4MDW	146.25	146.85	N	
HIGH POINT	N4XO	144.81	145.41	N	AO
HIGH POINT	N4LDK	146.40	147.00	•	LA
HIGH POINT	KB4BPV	147.435	146.835	•	A
HIGH POINT	KJ4RT	147.765	147.165	•	PA
HILLSBOROUGH	WA4WTX	147.825	147.225	D	AL
JACKSONVILLE	WD4FVO	146.40	147.00	•	PA
JACKSONVILLE	WR4ATW	147.90	147.30	N	
LARNBRG/SCOTLAND	K4QWK	146.025	146.625	•	
LENOIR/HIBRITN	KN4K	147.93	147.33	•	
LEWISVILLE	N4GGK	144.61	145.21	D	PA
LEXINGTON	K4IZM	146.31	146.91	•	PA
LK NORMN/CLT	WB4KPF	147.615	147.015	D	
LUMBERTON	W4NHV	147.90	147.30	•	EA
LUMBERTON	WV4Z	147.96	147.36	•	
MACO	WA4LED	147.66	147.06	D	
MADISON	KA4YFF	146.295	146.895	D	
MAGGIE VALLEY	W4HCY	147.405	146.805	D	
MANTEO/WANCHESE	W4ACY	146.34	146.94	•	
MARION/BEAR WLW	KA4DEC	147.705	147.105	N	
MAYODAN	WA4ACP	147.72	147.12	N	
MILLERS CREEK	N4GGN	146.115	146.715	•	A
MONROE	KF4NJ	144.79	145.39	•	A
MONROE/UCARS	K4JCK	147.705	147.105	D	A
MORENTN/HI PK	WB4UDS	144.55	145.15	N	
MORGANTON	K4VLY	147.75	147.15	•	
MT AIRY	WA4ZAS	146.37	146.97	N	EA
MT AIRY-RTTY	WA4ZAS	146.34	146.94	N	R
MT AIRY/TRNR MT	KD4J	144.73	145.33	N	A
MT MITCHELL	WA4BVW	144.59	145.19	•	
MURPHY	KC4WB	147.795	147.195	N	
N. WILKESBORO	N4AGN	144.77	145.37	D	LPA
NAGS HEAD/BODIE	N4JXG	146.235	146.835	•	PA
NEW BERN	WD4JMS	146.01	146.61	D	A
NEWPORT	K4GRW	144.85	145.45	N	AL
NEWTON	WD4JWO	144.57	145.17	N	
OLD FORT	KA4ROZ	146.385	146.985	N	
OXFORD	N4EKK	144.57	145.17	D	PA
RALEIGH	N4BEA	144.67	145.27	D	PAL
RALEIGH	N4CBI	144.89	145.49	N	
RALEIGH	W4DW	146.04	146.64	•	
RALEIGH	K4BWC	146.13	146.73	•	PA
RALEIGH	K4ITL	146.28	146.88	•	L
RALEIGH	K4ITL	147.75	147.15	•	PA
REIDSVILLE	K4YFT	146.25	146.85	D	
ROANOKE RAPIDS	K4ITL	144.71	145.31	•	CL
ROANOKE RAPIDS	WA4DTS	147.63	147.03	D	
ROARING GAP	WB4PZA	146.22	146.82	•	
ROB/JOANNA BLD	WD4CNS	146.445	147.045	D	
ROCKINGHAM	WA4ULA	146.355	146.955	N	
ROCKY MOUNT	K4EWL	147.72	147.12	•	PA
SALISBURY	W4EXU	146.13	146.73	•	PA
SANFORD	WB4EJJ	147.78	147.18	D	A
SAURATOWN MT	W4RXG	144.51	145.11	•	R
SAURATOWN MT	WA4GIC	144.87	145.47	D	
SAURATOWN MT	N4LDK	146.19	146.79	•	PA
SHALLOTTE	K4PPD	144.69	145.29	•	
SHELBY	W4NYR	146.28	146.88	D	
SHELBY	W4NYR	147.945	147.345	D	PA
SMITHFIELD	KD4JQ	146.37	146.97	N	
SMITHFIELD	W4MKL	147.99	147.39	N	
SPARTA/GREEN MT	K4ITL	144.83	145.43	•	L
SPRING LAKE	WB4KDC	146.115	146.715	N	
STATESVILLE	AI4O	146.085	146.685	•	
STATSVL/ASBRY MT	WA4JRL	147.645	147.045	N	
SWANSBORO	KO4S	146.16	146.76	•	
TRENTON	K4ITL	144.61	145.21	•	L
TUCKASEGEE	W8OMV	147.90	147.30	N	
UNION CROSS	WA4RBW	147.915	147.315	•	
WADESBORO	WA4IAT	146.235	146.835	D	
WASHINGTON	WA4TEP	147.945	147.345	D	
WAXHAW	WB4OOA	146.295	146.895	N	PA
WAXHAW	WA4ZRS	147.465	146.865	•	A
WAYNESVILLE	N4SM	147.87	147.27	•	PA
WHITEVILLE	K4MSD	147.81	147.21	•	
WILLIAMSTON	KA4KNU	144.81	145.41	•	PA
WILMINGTON	W4VNK	146.13	146.73	D	PA
WILMINGTON	K4GMP	146.22	146.82	D	L
WILMINGTON	N4CTJ	147.78	147.18	N	A
WILSON	WB4THL	146.16	146.76	•	
WINSTON-SALEM	WA4GIC	146.04	146.64	D	

220 MHZ

ASHEVILLE	NC4N	223.00	224.60	D	
ASHVL/MT PISGAH	WA4BVW	222.34	223.94	•	
CHARLT/MINT HL	KE4ZC	222.80	224.40	D	
CHERRYVILLE	WB4UDS	223.36	224.96	N	
FAYETTEVILLE	W4EHF	222.42	224.02	D	
GIBSONVILLE	WB4IKY	223.22	224.82	•	A
GOLDSBORO	WB3JVX	223.36	224.96	•	EAC
HENDSVL/BERWLW M	WA4KNI	222.64	224.24	•	
HICKORY	WA4MDW	222.42	224.02	N	
HIGH POINT	K4AZA	222.32	223.92	•	LA
HILLSBOROUGH	WA4WTX	222.34	223.94	D	L
LENOIR/HIBRITN	KN4K	222.56	224.16	D	
LINWOOD	KA4HUV	222.38	223.98	N	
LK NORMN/CLT	WB4KPF	223.08	224.68	N	
LOCUST	WA4ZIA	222.40	224.00	D	PAL
LUMBERTON	WB4WOR	222.54	224.14	D	
MARSHALL	KA4YTO	222.76	224.36	D	
MORGANTON	WB4PML	223.20	224.80	D	
MT MITCHELL	WA4BVW	222.94	224.54	D	
MT. TOXAWAY	K4MSK	223.12	224.72	D	
RALEIGH	WA4PEN	223.04	224.64	N	
ROCKY MOUNT	NF4C	222.36	223.96	•	
SALISBURY	W4EXU	223.16	224.76	•	
SAURATOWN MT	W4RXG	223.10	224.70	•	R
SAURATOWN MT	W4RXG	223.28	224.88	•	
STATESVILLE	WA4PVI	222.70	224.30	N	
WINSTON-SALEM	WA4YHH	223.04	224.64	•	PA

440 MHZ

ASHVL/MT PISGAH	WA4COS	449.90	444.90	N	
CHARLOTTE	W4BFB	449.60	444.60	D	
CHARLOTTE	W4CQ	449.85	444.85	N	
DURHAM	WA4WTX	449.10	444.10	D	AL
EDEN	WA4ACP	447.10	442.10	N	
FAYETTEVILLE	KB4ZW	449.40	444.40	N	
FAYETTEVILLE	KB4ZW	449.90	444.90	N	P
GOLDSBORO	WB3JVX	448.05	443.05	•	EA
GREENSBORO	WD4PQZ	448.50	443.50	•	
GREENVILLE	AI4J	449.80	444.80	N	
HENDSVL/BERWLW M	WA4KNI	449.25	444.25	•	
HICKORY	K4JEQ	449.00	444.00	•	

— GLENDALE SPS. W44SB 90-30

MORE NORTH CAROLINA REPEATERS

HIGH POINT	K4AZA	447.90	442.90	•	L
HIGH POINT	N4LXW	448.70	443.70	N	
LEWISVILLE	N4GGK	439.25	426.25	D	V
LOCUST	WA4LBT	448.70	443.70	•	L
MT AIRY/FSH PK	KF4UY	449.80	444.80	•	
MT MITCHELL	N4DWU	448.60	443.60	•	
N. WILKESBORO	N4GGN	448.35	444.35	N	
NEW BERN	WA4VBC	449.90	444.90	•	
RALEIGH	N4BEA	447.15	442.15	D	L
RALEIGH	WA1WXL	449.95	444.95	N	C
ROARING GAP	KC4XE	448.55	443.55	•	L
ROCKY MOUNT	N4JEH	449.70	444.70	D	
SALISBURY	W4EXU	449.65	444.65	•	EA
SAURATOWN MT	K4AZA	439.25	421.25	•	
SAURATOWN MT	N4GGC	448.10	443.10	•	
SHELBY	W4NYR	439.25	427.25	D	VPA
WILLIAMSTON	KA4KNU	449.65	444.65	N	
WILMINGTON	KB4BR	449.70	444.70	D	
WILSON	NE4J	449.90	444.90	•	
WOODLEAF	KB4KQI	448.30	443.30	•	RB

10 METERS

EDEN	WA4ACP	29.56	29.66	N	
WILKESBORO	KC4XE	29.52	29.62	•	L

6 METERS

CARY	WR4AVP	52.35	53.35	N	
HENDERSONVILLE	WB4YAO	52.01	53.01	N	
HENDERSONVILLE	WB4YAO	52.525	52.525	N	RB
HICKORY	WA4MDW	52.47	53.47	N	
HIGH POINT	K4AZA	52.525	52.525	D	RB
NEWPORT	K4GRW	52.01	53.01	N	P
ROANOKE RAPIDS	WA4DTS	52.03	53.03	D	
ROCKY MOUNT	KA4DAP	52.07	53.07	N	P
SAPPHIRE	W4EHV	52.33	53.33	N	C
STATESVILLE	WA4WRS	52.67	53.67	N	

920 MHZ

LEXINGTON	W4PAR	908.00	920.00	•	P
LEXINGTON	W4PAR	909.00	921.00	•	P

PACKET

CHARLOTTE	W4BFB-1	145.01	PKET	D	K
COLFAX	KE4TH-1	145.07	PKET	N	K
CONCORD	K4CEB-1	145.01	PKET	N	K
GOLDSBORO	K4CYP-1	145.01	PKET	N	K
RALEIGH	K4BWC-1	145.01	PKET	•	K
RALEIGH	K4ITL-1	145.01	PKET	D	K
SAURATOWN MT	W4RXG-1	145.01	PKET	•	K
SPIVEY MTN	KB4OKW-1	145.01	PKET	D	K

EAST KENTUCKY REPEATERS

2 METERS

ASHLAND	KK4Y	146.34	146.94	•	
ASHLAND	KA4DII	147.84	147.24	D	PA
ASHLAND	WA8KWH	147.93	147.33	D	A
DEAN	AK4U	144.61	145.21	•	
DOG FORK MT	N4MWA	147.75	147.15	D	
ELKHORN CITY	WB4WAU	147.60	147.00	D	PA
GRAYSON	KF4JO	146.10	146.70	N	
HARLAN	WM4R	144.75	145.35	N	
HAZARD	K4VHF	146.07	146.67	D	
JENKINS	WD4PDJ	147.99	147.39	N	
LEXINGTON	KC4TX	144.85	145.45	N	A
LOUISA	WA4SWF	146.13	146.73	•	EA
LYNCH/BLACK MT	N4IZD	147.945	147.345	N	
MIDDLESBORO	W4PPM	144.63	145.23	N	
MOREHEAD	K4GFY	146.31	146.91	•	
MT. STERLING	WD4KNE	147.745	147.145	N	
PIKEVILLE	N4IWZ	144.55	145.15	•	
PIKEVILLE	WB4GEL	146.19	146.79	•	PA
PIKEVILLE	N4IXA	146.25	146.85	•	EAL
PIKEVILLE	WB4GEL	147.87	147.27	•	PA
PINEVILLE	WA4YZY	146.04	146.64	N	
PRESTONSBURG	K4ICN	144.69	145.29	•	LRB
PRESTONSBURG	WB4KUC	146.28	146.88	D	
REDBUSH	KB4NDB	147.69	147.09	•	
WINCHESTER	WB4ASZ	147.72	147.12	•	EA

6 METERS

FLAT GAP	N4MPM	52.45	53.45	•	

220 MHZ

ASHLAND	KC4QK	222.34	223.94	N	
LOUISA	K4PGA	222.12	223.72	D	EA
PIKEVILLE	WB4F	222.98	224.58	•	
PIKEVILLE	N4ETG	223.02	224.62	•	A

440 MHZ

LYNCH/BLACK MT	N4IZD	448.10	443.10	N	

PACKET

PRESTONSBURG	WA4FHK-1	145.01	PKET	•	K

GEORGIA REPEATERS

2 METERS

ADAIRSVILLE	WD4IWL	146.085	146.685	N	
ADEL	KF4JF	144.63	145.23	N	
ALBANY	W4MM	144.55	145.15	D	L
ALBANY	W4MM	146.10	146.70	D	
ALBANY	W4MM	146.13	146.73	D	
ALBANY	W4MM	146.22	146.82	D	
ALBANY	W4MM	147.72	147.12	D	K
ALBANY	WB4TFW	147.75	147.15	•	
AMERICUS	K4VBH	147.87	147.27	N	
ASHBURN	KF4BI	147.885	147.285	•	
ATHENS	WA4BKF	146.145	146.745	D	A
ATHENS	K4TQU	147.975	147.375	D	
ATLANTA	K4DRQ	144.69	145.29	•	
ATLANTA	W4BOC	144.85	145.45	•	
ATLANTA	W4DOC	146.22	146.82	D	PA
ATLANTA	N4OD	146.37	146.97	N	
ATLANTA	WA4NNO	146.40	147.00	D	PA
ATLANTA	K4YSB	147.705	147.105	N	
ATLANTA	K4SMX	147.795	147.195	N	
ATLANTA	WD4KDT	147.855	147.255	•	PAL
ATLANTA/AIRPORT	W4REI	147.63	147.03	D	
ATLANTA/BELL	W4PME	144.81	145.41	•	
ATLANTA/GA TECH	W4AQL	144.55	145.15	D	PA
ATLANTA/GPCO	WA4VBX	147.885	147.285	•	
ATLANTA/STONE MT	W4BOC	146.16	146.76	•	
ATLANTA/SWEAT MT	WB4UPC	144.83	145.43	D	A
ATLANTA/SWEAT MT	WB4UPC	147.94	147.34	D	NB
AUGUSTA	W4TUN	144.51	145.11	D	A
AUGUSTA	N4JA	144.89	145.49	•	
AUGUSTA	W4LWT	146.04	146.64	•	
AUGUSTA	AA4UA	146.235	146.835	D	C
AUGUSTA	KT4N	146.34	146.94	D	
AUGUSTA	NA4I	146.385	146.985	•	PA
AUGUSTA	NI4S	147.72	147.12	D	PA
AUGUSTA	N4BMA	147.78	147.18	•	RPA
BALDWIN	WD4NHW	147.78	147.18	D	A
BRUNSWICK	K4TVE	146.13	146.73	N	
CARROLLTON	W4FWD	146.04	146.64	D	A
CEDARTOWN	W4CMA	147.72	147.12	•	PA
CLEVELAND/LONG	K4FOW	146.31	146.91	D	
CLEVELAND/LONG	K4FOW	147.615	147.015	D	
COLUMBUS	KA4CEK	144.71	145.31	•	
COLUMBUS	W4FIZ	146.01	146.61	D	
COLUMBUS	N4AGO	146.28	146.88	D	
COLUMBUS-RTTY	K4ACH	144.77	145.37	D	R
CONYERS	WB4JEH	146.01	146.61	•	
CONYERS	KE4SG	147.81	147.21	D	PA
CORDELE	WA4RWS	144.89	145.49	•	
COVINGTON	WA4ASI	146.925	146.325	N	NB
CUMMING/SAWNEE	K4BYK	147.75	147.15	•	PAL
DALLAS	K4DVJ	146.25	146.85	N	
DALTON	KE4UJ	144.63	145.23	•	
DALTON	N4BZJ	144.65	145.25	D	
DALTON	N4BZJ	147.735	147.135	D	
DALTON	KE4LN	147.81	147.21	•	
DECATUR	W4VTA	144.51	145.11	•	EA
DECATUR	WB4CPL	144.75	145.35	•	
DOUGLAS	KB4TCU	147.765	147.165	N	
DOUGLASVILLE	KB4EO	147.96	147.36	D	A
DUBLIN	WA4HZX	147.96	147.36	N	
ELLIJAY	W4HHH	146.985	146.385	•	NB
FAYETTEVILLE	K4UWN	146.085	146.685	D	
FOLKSTON	K4DMK	146.19	146.79	N	
FOREST PARK	K4KQK	144.65	145.25	N	
FORSYTH	W4SPJ	147.315	147.915	N	
GAINESVILLE	W4NSO	146.07	146.67	D	A
GRIFFIN	K4HYB	144.79	145.39	C	PA
GRIFFIN	K4HYB	146.31	146.91	D	
HAMPTON	AC4P	146.235	146.835	N	
HARTWELL	KY4T	146.895	146.295	N	EA
HINESVILLE	WA7LZQ	147.60	147.00	N	P
IRWINTON	WB4NFG	147.84	147.24	N	
JACKSONVILLE(FL)	N4KBD	144.85	145.45	D	PA

CVRA-SERA REPEATER SYMBOLS

★	Full Member Supporter	T	Tone Access Repeater
D	Delinquent Membership	L	Linked Repeater
N	Non-Member SERA	K	Packet Operation
NB	Not On SERA Freq. Plan	R	Radioteletype Operation
M	T-MARC Terr. Repeater	V	Television (SSTV or ATV)
A	Autopatch (Open)	P	Proposed Repeater Coord.
PA	Private Autopatch	C	Under Construction
EA	Emergency Autopatch	O	Off the Air Temporarily
		RB	Remote Base System

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MORE GEORGIA REPEATERS

JASPER	KB4IZF	144.77	145.37	•	
JASPER	W4OOM	146.10	146.70	•	A
JESUP	WA4EQL	146.07	146.67	N	
JONESBORO	WA4DIW	144.57	145.17	•	EA
JONESBORO	WA4OGE	144.73	145.33	N	
LAGRANGE	KO4R	146.25	146.85	•	EA
LAGRANGE	WB4BXO	147.93	147.33	•	EA
MACON	WB4OLL	144.83	145.43	N	
MACON	W4BKM	146.06	146.66	N	NB
MACON	K4ICT	147.66	147.06	•	T
MADISON	WB4DKY	146.265	146.865	D	
MARIETTA	WA4QPL	144.89	145.49	•	PA
MARIETTA	N4NFP	146.055	146.655	•	EA
MARIETTA	KE4FT	146.13	146.73	N	
MARIETTA	KC4KE	146.175	146.775	•	
MARIETTA	W4BTI	146.28	146.88	D	
METTER	W4TYM	147.645	147.045	D	
MILLEDGEVILLE	KF4LI	144.55	145.15	D	A
MILLEDGEVILLE	WB4DOJ	146.10	146.70	N	
MILLEDGEVILLE	KF4LT	146.205	146.805	N	
MOULTRIE	WD4KOW	146.19	146.79	N	
NEWNAN	K4SEX	144.53	145.13	•	PA
NEWNAN	K4SEX	146.19	146.79	•	
PERRY	KB4KIN	146.355	146.955	•	A
PINE MT/HAMILTON	WB4ULJ	144.59	145.19	•	
PRESTON	W4TOV	146.385	146.985	N	
QUITMAN	WA4NKL	146.28	146.88	N	
RINGGOLD	W4ABZ	146.115	146.715	N	
ROME	W4VO	146.34	146.94	•	EA
ROME	K4HNM	147.90	147.30	N	
ROSSVILLE	KC4EV	144.75	145.35	N	
ROSWELL	N4CLA	147.66	147.06	•	
SAVANNAH	K4NLX	144.63	145.23	N	
SAVANNAH	K4NLX	146.10	146.70	N	PA
SAVANNAH	W4HBB	146.28	146.88	D	
SAVANNAH	W4HBB	146.37	146.97	D	A
SNELLVILLE	WD4JXR	147.675	147.075	•	PA
ST SIMONS ISL	KA4CVE	147.69	147.09	D	
ST. MARYS	KA4UUB	146.385	146.985	N	P
STATESBORO	NC4D	147.81	147.21	N	
STOCKBRIDGE	WA4JDR	144.71	145.31	N	
SUMMERVILLE	KA4LVY	147.825	147.225	N	
SVR CRK/MT ALTO	K4HNM	147.90	147.30	N	
SWAINSBORO	K4VYX	146.19	146.79	N	
SWEAT MTN	N4CLA	144.87	145.47	•	
SWEAT MTN	KD4NC	146.13	146.73	•	K
SYCAMORE	KF4BI	147.78	147.18	N	
THOMASTON	K4IMK	147.99	147.39	N	
THOMASVILLE	W4UCJ	147.66	147.06	N	A
TOCCOA	KA4DIP	147.93	147.33	•	PA
TYRONE	W4PSZ	144.61	145.21	•	PA
UNION CITY	WA4UPE	146.025	146.625	D	
VALDOSTA	W4APS	146.16	146.76	N	
VALDOSTA	K4JFE	147.735	147.135	N	
VALDOSTA/TIFTON	WA4VLP	144.53	145.13	N	
VIDALIA	N4JWP	146.025	146.625	•	A
WALESKA/PNLGMT	KE4PN	144.67	145.27	D	L
WARNER ROBINS	WB4BDP	146.01	146.61	D	
WARNER ROBINS	W4HON	146.25	146.85	•	A
WARNER ROBINS	W4MST	147.615	147.015	•	
WARNER ROBINS	W4HON	147.90	147.30	•	A
WAYCROSS	WA4GVG	146.04	146.64	N	
WRENS	WB4OCB	146.175	146.775	N	
WRIGHTSVILLE	WA4RVB	146.34	146.94	N	
YNG HRS/RCKY TP	N4EFL	146.355	146.955	D	

220 MHZ

ATLANTA	W4DOC	222.96	224.56	N	
ATLANTA	KK4C	223.22	224.82	D	PAL
ATLANTA/SWEAT MT	WB4UPC	222.34	223.94	D	L
ATLANTA/SWEAT MT	WB4UPC	222.52	224.12	D	A
AUGUSTA	NA4I	223.34	224.94	D	P
BUCHANAN/HARALSO	WB4UPC	222.46	224.06	D	L
BUCHANAN/HARALSO	WB4UPC	223.34	224.94	D	
CANTON	WB4UPC	222.74	224.34	D	L
CANTON	N4KSM	222.90	224.50	N	
CONYERS	WB4JEH	222.96	224.56	•	
DALTON	N4KVC	223.14	224.74	N	
DALTON	N4BZJ	223.28	224.88	D	P
JACKSONVILLE(FL)	N4KBD	223.34	224.94	D	
MARIETTA	WA4QPL	223.30	224.90	•	
ROSSVILLE	KC4EV	223.34	224.94	N	
THOMASVILLE	N4JBF	222.72	224.32	N	

440 MHZ

ALBANY	W4MM	439.25	427.25	D	
ALBANY	W4MM	449.50	444.50	D	
ATLANTA	W4KIP	439.25	421.25	N	V
ATLANTA	W4DOC	444.825	449.825	D	NB
ATLANTA	W4DOC	447.075	444.075	N	
ATLANTA	W4DOC	448.175	444.175	N	
ATLANTA	WB8LVH	448.50	443.50	•	
ATLANTA	WB4UWL	449.50	444.50	D	
ATLANTA	N4WQ	449.625	444.625	N	A
ATLANTA	WA4NNO	449.925	444.925	D	
ATLANTA	WA4YNZ	449.975	444.975	N	T
ATLANTA/BELL	K4LDR	449.15	444.15	•	
ATLANTA/STONE MT	W4BOC	449.25	444.25	•	
AUGUSTA	WB4OCB	448.145	443.145	N	
AUGUSTA	NA4I	449.95	444.95	N	
BRUNSWICK	K4TVE	449.975	444.975	N	
CHATSWORTH	AA4EO	448.00	443.00	•	
COLUMBUS	WA4QHN	449.20	444.20	N	
CONYERS	WB8LBH	443.50	448.50	N	
CONYERS	WB4JEH	447.55	442.55	•	
DALTON	WA4TIW	449.735	444.735	D	NB
DECATUR	WB4LBM	449.20	444.20	N	
ELLIJAY	W4HHH	449.70	444.70	•	
GRIFFIN	WB4GWA	448.90	443.90	D	PA
JACKSONVILLE(FL)	N4KBD	449.10	444.10	D	
LAWRENCEVILLE	WB4QDX	449.00	444.00	D	
LAWRENCEVILLE	WD4KEZ	449.45	444.45	D	L
LAWRENCEVILLE	WD4KEZ	449.45	145.67	D	RB
MACON	WB4OLL	444.90	449.90	N	NB
MARIETTA	K4PQD	449.05	444.05	N	
PERRY	KB4KIN	449.95	444.95	•	
RINGGOLD	KJ4IU	449.475	444.475	•	
SWEAT MT	N4CLA	448.20	443.20	•	K
TIFTON	KF4JF	449.35	444.35	N	
TYRONE	K4NEF	449.55	444.55	•	

10 METERS

ALBANY	W4MM	29.58	29.68	D	L
ATLANTA	WB8LVH	29.52	29.62	•	L
JACKSONVILLE(FL)	N4KBD	29.54	29.64	D	
MARIETTA	KJ4IS	29.56	29.66	N	C

6 METERS

ATLANTA/SWEAT MT	WB4UPC	52.05	53.05	D	
CONYERS	WB4JEH	52.55	53.55	•	
PERRY	KB4KIN	52.13	53.13	N	C

PACKET

ADEL	KF4JF-1	145.01	PKET	N	K
ALBANY	W4MM-1	145.09	PKET	N	K
AMICACOLA MT	WB4GQX-4	145.09	PKET	D	K
AUGUSTA	WD4CNV-1	145.01	PKET	N	K
CLARKSVILLE	W4EAW-1	145.01	PKET	N	K
COHUTTA	W4KAU	145.01	PKET	D	K
COHUTTA	W4KAU	145.09	PKET	D	K
COLUMBUS	K4ABT-1	145.01	PKET	N	K
CUMMING/SAWNEE	WB4GQX-1	145.01	PKET	D	K
FAIRMONT	AA4EO-1	145.09	PKET	N	K
FORSYTH	WB4GQX-2	145.01	PKET	D	K
HAMPTON	WA4TXT-1	145.01	PKET	N	K
LAGRANGE	WB4BXO-1	145.03	PKET	•	K
MACON	K4ICT-2	145.05	PKET	•	K
PERRY	K4ICT-1	145.01	PKET	•	K
PERRY	KB4KIN-1	145.01	PKET	N	K
PERRY	KB4KIN-5	145.05	PKET	N	K
PINE MT/HAMILTON	WB4ULJ-1	145.01	PKET	•	K
ROBERTA	K4ICT-4	145.01	PKET	D	K
ROME	NC4G-1	145.09	PKET	N	K
SYCAMORE	WD4LYV	145.01	PKET	N	K
SYCAMORE	WD4LYV	145.05	PKET	N	K
WARNER ROBINS	K4AGT-1	145.01	PKET	N	K
WARNER ROBINS	WL7ACY-1	145.05	PKET	D	K
WARNER ROBINS	WL7ACY-2	145.05	PKET	•	K
SAWNEE MT/CUMMIN	WB4GQX-1	223.70	PKET	N	K

ALABAMA REPEATERS

ONLY Full Member Repeaters Listed

2 METERS

BIRMINGHAM	N4IQT	144.59	145.19	•	
FORT PAYNE	WA4PJE	147.87	147.27	•	A
LANETT	K4DXZ	147.60	147.00	•	
LEEDS	N4IQT	146.08	146.68	•	

440 MHZ

LANOTT	K4DXZ	447.05	442.05	•	

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TENNESSEE REPEATERS

2 METERS

ALAMO	WB4EDS	147.735	147.135	N	
ATHENS	WB4GRC	144.71	145.31	N	
BENTON	K4SIR	144.85	145.45	N	
BLOUNTVILLE	WA4KMG	147.60	147.00	•	
BRISTOL	K4ILW	146.07	146.67	D	A
BRISTOL	WD4CYZ	146.28	146.88	•	
BRISTOL/HLSTN MT	K4LSP	147.765	147.165	N	
BROWNSVILLE	WA4ABU	146.055	146.655	•	
CHATT/SIGNAL MT	KW4Z	146.055	146.655	•	
CHATT/SIGNAL MT	WA4ZOK	147.60	147.00	N	PA
CHATTANOOGA	K4VCM	144.69	145.29	•	
CHATTANOOGA	KB4TZ	144.79	145.39	•	A
CHATTANOOGA	K4CMY	146.01	146.61	•	
CHATTANOOGA	W4DSK	146.19	146.79	•	A
CHATTANOOGA-RTTY	K4CMY	144.53	145.13	N	
CLARKSVILLE	WA4TEQ	147.60	147.00	N	
COOKEVILLE	WA4UCE	146.07	146.67	N	A
COOKEVILLE	N4WS	147.81	147.21	N	PA
COVINGTON	WA4VXW	147.93	147.33	N	
CROSSVILLE	KE4RX	146.04	146.64	•	
CROSSVILLE	W4CV	147.93	147.33	N	
CUMBERLAND CTY	N4GMT	144.73	145.33	N	
DAYTON/RHEA CTY	K4ZLA	147.99	147.39	N	
DECATUR-PONE KB	W4RJC	144.55	145.15	•	
DONELSON	WA4BZU	147.885	147.255	N	TPA
DYERSBURG	AA4HF	146.145	146.745	N	
ELZ/JC/HLST MT	WB4SQC	144.69	145.29	N	A
FAYETTEVILLE	KO4G	146.265	146.865	N	
FAYETTEVILLE	W4NIQ	147.63	147.03	N	
FISHERVILLE	N4DRL	144.65	145.25	D	A
FRANKLIN	WB4HCK	144.55	145.15	N	RB
GALLATIN	W4NIT	147.84	147.24	N	PA
GALLATIN	WA4YQC	147.87	147.27	N	PA
GRAY	WD4SBX	147.99	147.39	N	
GREENEVILLE	K4EPC	144.79	145.39	•	
GREENEVILLE	WB4TUO	144.81	145.41	•	
GRNVLE/GRYSTN	WA4LYF	147.66	147.06	D	A
GTLBG/COVE MTN	WA4KJH	146.25	146.85	N	LEA
GUTHRIE (TN/KY)	KA4NNA	146.205	146.805	N	
HENDERSONVILLE	WB4WZK	144.67	145.27	•	
HENDERSONVILLE	N4WF	147.945	147.345	N	
HERMITAGE	WB4DOR	144.79	145.39	•	
HUMBOLDT	NQ4Y	144.75	145.35	D	
JACKSON	KF4SC	144.71	145.31	N	
JACKSON	W4WKZ	147.81	147.21	N	
JAMESTOWN	KE4JE	144.55	145.15	N	
JASPER	KD4XX	144.59	145.19	N	
JOHNSON CITY	KE4FH	146.19	146.79	N	
JOHNSON CITY	KE4FH	147.87	147.27	N	A
KNGSPT/BAYS MT	W4TRC	146.37	146.97	•	PA
KNOXVILLE	WB4JSD	144.51	145.11	D	R
KNOXVILLE	K4KFD	144.61	145.21	N	A
KNOXVILLE	WA4GZE	144.77	145.37	D	EA
KNOXVILLE	WB4GBI	144.83	145.43	D	
KNOXVILLE	WB4GBI	144.87	145.47	D	
KNOXVILLE	WB4GBI	146.34	146.94	D	
KNOXVILLE	WB4GBI	147.675	147.075	D	A
KNOXVILLE	W4BBB	147.90	147.30	•	
KNOXVL/SHARPS RG	WA4TEM	144.73	145.33	•	A
KNXVL/CROSS MT	KA4OAK	147.96	147.36	D	
KNXVL/ENG MT	WB4IOB	146.13	146.73	D	
LAFOLLETTE	KA4OAK	144.53	145.13	D	A
LAFOLLETTE/WMT	K4BGW	146.07	146.67	D	
LAKE CITY	WB4OAH	146.22	146.82	N	
LEBANON	WB4DOR	144.59	145.19	•	
LEBANON	KE4VZ	146.13	146.73	N	PA
LENOIR CITY	KE4SK	144.57	145.17	N	
LENOIR CITY	KB4PIO	146.085	146.685	N	C
LEXINGTON	WB4LGH	146.43	147.03	N	
MANCHESTER	W4UOT	146.10	146.70	D	A
MARTIN	WA4ZQX	146.025	146.625	•	
MCMINNVILLE	WA4CPJ	146.37	146.97	D	A
MCMINVL/SHT MT	W4KKO	144.89	145.49	•	
MEDINA	K4BEZ	146.37	146.97	•	A
MEMPHIS	WA4VIP	144.81	145.41	N	
MEMPHIS	WA4KOG	144.89	145.49	N	
MEMPHIS	W4GYS	146.04	146.64	N	
MEMPHIS	W4UFT	146.10	146.70	N	
MEMPHIS	WB4DAZ	146.13	146.73	N	
MEMPHIS	K4FZJ	146.19	147.51	N	NB
MEMPHIS	W4BS	146.22	146.82	N	
MEMPHIS	WA4KOG	146.25	146.85	N	A
MEMPHIS	WA4ETE	146.28	146.88	N	A
MEMPHIS	K4BN	146.34	146.94	N	A
MEMPHIS	K4FZJ	146.40	147.00	N	
MEMPHIS	WA4MQQ	146.46	147.06	N	
MEMPHIS	W4ZJM	147.63	147.03	N	L
MEMPHIS	WB4DAZ	147.72	147.12	N	AT
MEMPHIS	WA5KUB	147.75	147.15	N	
MEMPHIS	WA4KOG	147.78	147.18	N	
MEMPHIS	WD4APK	147.84	147.24	N	
MEMPHIS	WA4ADT	147.90	147.30	N	
MEMPHIS	WB4MMI	147.96	147.36	N	
MILLINGTON/NB	W4ODR	146.43	147.03	N	L
MORRISTOWN	WD4PRQ	147.63	147.03	N	EA
MORRISTOWN	WB4OAH	147.825	147.225	N	
MOUNTAIN CITY	WD4OMO	144.87	145.47	N	
MT JULIET	WA4CBF	144.77	145.37	N	
MURFREESBORO	KJ4RA	144.63	145.23	N	
NASHVILLE	N4AJS	144.65	145.25	N	
NASHVILLE	WD4FFM	144.69	145.29	N	
NASHVILLE	WD4JYD	144.75	145.35	N	
NASHVILLE	N4ARK	144.87	145.47	N	
NASHVILLE	WA4PCD	146.01	146.61	N	PA
NASHVILLE	WB4NTM	146.04	146.64	N	EA
NASHVILLE	W4PQP	146.16	146.76	•	
NASHVILLE	W4SQE	146.19	146.79	•	
NASHVILLE	WA4PCD	146.25	146.85	N	PA
NASHVILLE	WA4PCD	146.28	146.88	N	
NASHVILLE	WA4PCD	146.34	146.94	N	
NASHVILLE	AF4K	147.615	147.015	N	
NASHVILLE	WA4PCD	147.75	147.15	N	
NASHVILLE	WA4PCD	147.78	147.18	N	
NASHVILLE	WB4ZSA	147.90	147.30	•	
NASHVILLE	N4AJS	147.93	147.33	N	
NASHVILLE S.	WB4NTM	147.96	147.36	N	R
NASHVILLE S.W.	WB4NTM	146.07	146.67	N	EA
OAK RIDGE	W4SKH	146.28	146.88	N	
OAK RIDGE	W4SKH	146.37	146.97	N	A
OAK RIDGE	K4EAJ	147.72	147.12	D	L
OAK RIDGE	K4EAJ	147.75	147.15	D	R
PARIS	K4KLX	147.96	147.36	D	A
PIKEVILLE	K4MJM	147.885	147.285	•	
POLK CTY/OSWALD	WD4DES	147.78	147.18	•	
PULASKI/MJS MT	W4JVO	146.175	146.775	D	A
PURYEAR	WA4CEX	147.765	147.165	D	
SAVANNAH	WB4DQU	146.31	146.91	N	
SEV/SHIELDS MT	N4CJX	144.67	145.27	D	
SHELBYVILLE	W4QEB	147.66	147.06	•	A
SHORT MTN	W4YXA	146.31	146.91	•	
SMYRNA	WB4LHO	144.57	145.17	N	PA
SPARTA/BON AIR	W4BSA	147.69	147.09	D	A
SPRING HILL	NW4E	144.85	145.45	N	A
STANTONVILLE	KF4VM	144.79	145.39	N	
UNION CITY	WA4YGM	146.10	146.70	D	
UNION CITY	WA4YGM	147.015	147.615	D	A NB
WAVERLY	NO4Q	146.085	146.685	•	
WINCHESTER	WB4UEW	146.22	146.82	D	

220 MHZ

CHATT/SIGNAL MT	WA4ZOK	223.30	224.90	N	
CHATTANOOGA	K4VCM	223.18	224.78	•	A
CLARKSVILLE	KF4GP	222.34	223.94	N	
FRANKLIN	WD4SGS	222.54	224.14	N	
GALLATIN	WB4ZSA	222.38	223.98	•	
GREENEVILLE	WB4NKM	223.34	224.94	•	A
HERMITAGE	WB4RAB	222.30	223.90	D	
HICKORY VALLEY	KA5TAG	222.58	224.18	N	
KNOXVILLE	WA4YON	222.86	224.46	•	
KNOXVILLE	W4BBB	222.90	224.50	•	
MEMPHS/FRAYSER	W4ZJM	222.34	223.94	N	LO
MT. JULIET	KE4NP	222.66	224.26	N	
NASHVILLE	N4TB	222.42	224.02	N	
NASHVILLE	WB4UEX	222.48	224.08	N	
NASHVILLE	N4AWB	222.62	224.22	N	
NASHVILLE	KI4OG	222.84	224.44	N	

440 MHZ

ALAMO	WB4EDS	448.75	443.75	N	L
CHATT/SIGNAL MT	WA4ZOK	439.25	427.25	N	V
CHATTANOOGA	N4JSR	447.325	442.325	N	
CHATTANOOGA	WA4NFO	449.10	444.10	•	
ELIZ/HOLSTON MT	WB4BFS	449.75	444.75	N	
FAYETTEVILLE	KO4G	448.10	444.10	N	
FISHERVILLE	N4DRL	432.01	BEACON	D	O
FISHERVILLE	N4DDS	449.30	444.30	D	O
FRANKLIN	KA4IDB	448.85	443.85	N	
GALLATIN	WD4KWP	449.45	444.45	•	
GATLBG/COVE MT	WA4KJH	448.30	443.30	N	L
GREENEVILLE	WB4NKM	449.65	444.65	•	
HICKORY VALLEY	KA5TAG	448.20	443.20	N	C
JACKSON	WA4BJY	447.20	442.20	N	
JACKSON	WB4EPG	447.80	442.80	D	A
JASPER	KD4XX	447.05	442.05	D	C
KNOXVILLE	WA4NTZ	447.50	442.50	N	
KNOXVILLE	K4HXD	449.30	444.30	N	
KNOXVILLE	KB4NK	449.60	444.60	D	
KNOXVILLE	WB4GBI	449.70	444.70	D	
MEDINA	K4BEZ	447.05	442.05	N	AL
MEMPHIS	WA4KOG	444.40	449.40	N	NB
MEMPHIS	WA4QWW	447.80	442.80	N	
MEMPHIS	W4ZJM	448.00	443.00	N	O
MEMPHIS	WA4DOR	448.40	443.40	N	A
MEMPHIS	KA4JXT	449.10	444.10	N	
MEMPHIS	KA4IZF	449.50	444.50	N	A

This CVRA-SERA Official
Repeater Index Is Correct
As of January 17, 1987

MORE TENNESSEE REPEATERS

MEMPHIS	WB4MMI	449.70	444.70	N	T
MEMPHIS	WD4APK	449.80	444.80	N	
MEMPHIS	WB4MMI	449.90	444.90	N	L
MILAN	WD4ABJ	447.10	442.10	N	
MORRISTOWN	KA4NEX	449.20	444.20	N	
MT JULIET	WA4PUB	448.05	443.05	N	
NASHVILLE	KI4OG	449.05	444.05	N	
NASHVILLE	WB4NTM	449.15	444.15	N	C
NASHVILLE	WA4PCD	449.55	444.55	N	
NASHVILLE	W4AY	449.675	444.675	N	
NASHVILLE	WB4QES	449.775	444.775	N	
NASHVILLE	WB4THG	449.875	444.875	N	
NASHVILLE	WB4QES	449.975	444.975	N	
OAK RIDGE	K4EAJ	449.40	444.40	D	L
PARIS/GROVE HL	WA4WKS	448.50	443.50	D	
SMYRNA	N4FUD	449.25	444.25	N	

10 METERS

KNXVL/ENG MT	WB4IOB	29.52	29.62	D
MEMPHIS/FRAYSER	W4ZJM	29.52	29.62	N

6 METERS

CHATTANOOGA	WB4LRD	52.01	53.01	N	
COOKEVILLE	WA4UCE	52.13	53.13	N	C
EADS	N4DRL	52.27	53.27	N	C
GALLATIN	WD4KWP	52.45	53.45	•	
GUTHRIE (TN/KY)	KA4NNE	52.23	53.23	N	
KNOXVILLE	WA4YON	52.15	53.15	•	
KNOXVILLE	WB4GBI	52.35	53.35	D	
KNOXVILLE	K4AAL	52.76	52.525	N	NB
KNXVL/ENG MT	WB4IOB	52.15	53.15	D	
MEMPHIS	WA4KOG	52.01	53.01	N	

PACKET

ELIZABETHTON	WB4BFS-2	145.01	PKET	N	K
GALLTN/MUSIC MT	W4PTZ-1	145.01	PKET	•	K
KNOXVILLE	KB4NK-1	145.01	PKET	D	K
KNOXVL/CROSS MT	WA4YON-1	145.01	PKET	N	K
MEMPHIS	WB4MQD-1	145.33	PKET	N	K
PIKEVILLE	K4MJM-1	145.01	PKET	•	K
SHORT MT	W4YXA-1	145.01	PKET	•	K

VIRGINIA REPEATERS

2 METERS

ACCOMAC	WA4TVS	147.855	147.255	•	PA
ALEXANDRIA	N4FSC	144.71	145.31	M	PA
ALEXANDRIA	WD4PDP	146.055	146.655	M	PA
ALEXANDRIA	W4HFH	147.915	147.315	M	L
ALTAVISTA	WA4ISI	146.055	146.655	•	A
ARLINGTON	N4EFJ	144.87	145.47	M	
ARLINGTON	WA4YVM	146.445	147.045	M	T
BARREN SPRINGS	K4HZS	146.07	146.67	•	
BEDFD/APL ORCH	WB4DBB	144.63	145.23	•	
BEDFORD	WB4JBJ	147.705	147.105	D	LRPA
BLACKSBURG	AB9I	146.115	146.715	D	
BLACKSTONE	W4AXH	146.235	146.835	N	P
BLAND	N4AZJ	144.75	145.35	•	PA
BLUEFIELD	W8MOP	144.89	145.49	D	A
BRISTOL	WD4CYZ	146.28	146.88	N	
BRUMLEY MT	K4LSP	146.01	146.61	N	
CHARLOTTESVILLE	WA4TFZ	146.16	146.76	•	
CHARLOTTESVILLE	WA4TFZ	146.325	146.925	•	
CHESAPEAKE	K4NDH	144.69	145.29	N	EA
CHESAPEAKE	N4GSP	146.01	146.61	•	
CHESAPEAKE	N4SD	146.19	146.79	•	A
CHESTERFIELD	KA4CBB	147.96	147.36	•	
CHESTERFLD CO	WA4ECM	147.66	147.06	•	A
COVINGTON	WA4HTI	146.205	146.805	N	
CREWE	K4ARO	144.55	145.15	•	
CULPEPPER	N4FAF	147.72	147.12	M	
DANVILLE	K4YZR	147.95	147.35	N	NB
DANVILLE(DCC)	WB4GJG	146.325	146.925	D	
DANVILLE/WHT OAK	K4WQS	146.10	146.70	N	
DUFFLD/POWLL MT	KA4BHH	146.10	146.70	•	
FAIRFAX	W4LBL	146.19	146.79	M	PA
FALLS CHURCH	W4AQD	144.75	145.35	M	T
FARMVILLE	WA4QQF	144.73	145.33	N	P
FARMVILLE	WB4NWP	146.31	146.91	D	
FINCASTLE	W4WIC	146.04	146.64	•	
FRANKLIN	K4SPS	147.90	147.30	N	PA
FREDRICKSBURG	WB4LNT	147.615	147.015	M	
GALAX	WA4ZIV	144.79	145.39	N	
GALAX/BRIRP MT	N4VL	147.69	147.09	•	A
GALAX/LKOUT MT	N4VL	144.53	145.13	•	EA
GLOUCESTER	KA2IMI	144.77	145.37	D	
GRUNDY	K4HWQ	147.92	147.32	N	ANB
GRUNDY/BIG A MT	WD4DCX	147.855	147.255	N	
GUM SPRING	KB4GX	147.87	147.27	D	
HAMPTON	K4DHO	146.13	146.73	•	PA
HAMPTON	K4UMI	146.34	146.94	N	T
HAZEL MT	WD4CYZ	146.235	146.835	•	
HILLSVILLE	WD4BTJ	147.975	147.375	N	A
JONESVILLE	WA4OVC	146.31	146.91	•	
LEXINGTON	KI4ZR	146.07	146.67	D	A
LEXNGTN/COLE MT	K4PQD	147.93	147.33	N	
LYNCHBURG	W4WWQ	146.01	146.61	N	
LYNCHBURG	K4STE	146.16	146.76	D	A
LYNCHBURG	AB4M	147.43	144.93	N	NB
LYNCHBURG	WA4RTS	147.795	147.195	N	
LYNCHBURG	KB4ILD	147.975	147.375	N	PA
MADISON	N4AJO	147.99	147.39	M	
MANASSAS	WD4JCE	144.67	145.27	M	R
MANASSAS	WA4FPM	146.37	146.97	•	PA
MARION	N4BIW	146.04	146.64	•	
MARTINSVILLE	AB4L	147.885	147.285	D	
MCLEAN	WD4IWG	147.81	147.21	M	R
MT. LK/BALD KNB	K4TUE	146.31	146.91	N	O
NEW MARKET	K4AVW	146.025	146.625	•	
NEWPORT NEWS	WB4CTF	147.765	147.165	D	PA
NEWPORT NEWS	WA4OHX	147.975	147.375	N	PA
NORFOLK	NE4D	146.10	146.70	N	
ONEIDA PEAK/BLF	KD8MZ	146.355	146.955	•	PAL
PEARISBURG	N4AZJ	147.735	147.135	•	
PETERSBURG	N4KAF	147.78	147.18	N	
PETERSBURG	K4ARO	147.84	147.24	•	TPA
PETERSBURG	K4ARO	147.99	147.39	•	
PKS KB/PULASKI	KT4Z	147.78	147.18	D	PA
PORTSMOUTH	N4MG	146.25	146.85	•	
RADFORD	KC4WA	147.645	147.045	•	
RICHMOND	K4YPE	144.51	145.11	•	A
RICHMOND	W4SQT	144.83	145.43	•	PA
RICHMOND	WB4QEY	146.04	146.64	•	PA
RICHMOND	WA4ZBE	146.28	146.88	•	EA
RICHMOND	W4ZA	146.34	146.94	•	
RICHMOND	WA4JST	146.43	147.03	N	
RICHMOND	N4HB	147.735	147.135	•	
ROANOKE	WB4QET	146.34	146.94	N	A
ROANOKE/POOR MT	WB4QOJ	146.145	146.745	N	LPA
ROANOKE/POOR MT	W4CA	146.385	146.985	•	
SALEM	W4PDL	146.28	146.88	N	
SOUTH BOSTON	WD4LBM	146.46	147.06	•	
STAUNTON	W4XD	146.10	146.70	•	
STAUNTON	WA4ZBP	146.25	146.85	•	
STAUNTON	W4WRN	146.37	146.97	N	EA
STAUNTON/EL. KB	W4WRN	147.645	147.045	N	
STERLING	WA4TXE	146.115	146.715	M	
SUFFOLK	WA4HMT	146.40	147.00	N	PA
TAZEWELL	WA4QKH	147.75	147.15	N	
TYSONS CORNER	WB4FMD	146.31	146.91	M	PA
VIENNA	K4HTA	146.085	146.685	M	
VIRGINIA BEACH	WA4KXV	146.295	146.895	•	
VIRGINIA BEACH	WA4KXV	146.37	146.97	•	PA
VIRGINIA BEACH	WA4SBC	147.645	147.045	N	
WARRENTON	WB4FJT	147.765	147.165	M	
WARSAW	KA4ZIP	147.93	147.33	•	
WAYNESBORO	W4BLD	147.63	147.03	•	
WAYNSBR/BEAR DEN	W4PNT	147.675	147.075	•	L
WILLIAMSBURG	W4NTG	146.07	146.67	D	
WINCH/BLUEMONT	WA4TSC	147.90	147.30	M	
WINCHESTER	W4RKC	146.22	146.82	•	
WISE/HIGH KNOB	K4AXO	147.81	147.21	N	
WOODBRIDGE	WB4FQR	147.84	147.24	M	A
WYTHE/HILL/PUL	KC4VR	147.945	147.345	•	AL
WYTHEVILLE	WA4EMS	146.175	146.775	•	
YORKTOWN	WD4SDC	147.825	147.225	N	

220 MHZ

ALEXANDRIA	WA4CCF	223.22	224.82	M	L
DAN/WHT OAK	K4OAK	223.16	224.76	N	
FAIRFAX	WB4YHD	222.50	224.10	M	L
FALLS CHURCH	N4CHP	223.38	224.98	M	PA
FRIES/PT LKOUT	WA4DFH	222.74	224.34	D	
PETERSBURG	K4ARO	222.40	224.00	•	
ROANOKE	WB4DBB	222.50	224.10	•	L
ROANOKE/POOR MTN	WB4DBB	223.34	224.94	•	
TAZEWELL	WA4QKH	222.66	224.26	N	P
TYSONS CORNER	WD4KHP	223.12	224.72	N	PL

440 MHZ

AFTON MT	W4BLD	449.05	444.05	•	
ALEXANDRIA	WR4AAG	439.25	426.27	M	V
ALEXANDRIA	W4HFH	449.60	444.60	M	
ALTAVISTA	WA4ISI	449.425	444.425	•	L
BEDFD/APL ORCH	WB4DBB	449.35	444.35	•	L
BLUEFIELD	KD8MZ	449.625	444.625	•	LPA
CHARLOTTESVILLE	WA4TFZ	449.25	444.25	•	
CHESAPEAKE	N4EVG	448.90	443.90	D	A
COVINGTON	WA4HTI	447.25	442.25	N	
FALLS CHURCH	WB8CRK	449.45	444.45	M	L
FINCASTLE	W4WIC	448.75	443.75	•	
HAMPTON	K4UMI	448.65	443.65	N	
LEXNGTN/COLE MT	K4PQD	449.15	444.15	N	
LYNCHBURG	K4HEX	449.50	444.50	N	
MANASSAS	WD4JCE	444.225	449.225	M	L
MANASSAS	WB3EAQ	448.30	443.80	M	
NORFOLK	W4WIN	439.25	426.25	N	V
NORTHWEST/SE VA	KR4K	448.80	443.80	N	
OILVILLE	KB4MIC	449.80	444.80	N	P

MORE VIRGINIA REPEATERS

PETERSBURG	K4ARO	449.85	444.85	•	
RICHMOND	K4ARO	449.65	444.65	•	
ROANOKE	WB4DBB	446.65	446.65	•	RBL
ROANOKE	N4HON	447.70	442.70	D	
ROANOKE/POOR MT	W4CA	447.50	442.50	•	
SPRINGFIELD	AA4VA	449.15	444.15	M	
STAUNTON	W4XD	449.825	444.825	•	
STAUNTON	W4WRN	449.95	444.95	N	
TYSONS CORNER	WB6GUS	448.50	443.50	M	
TYSONS CORNER	K4JYF	449.75	444.75	M	
VIRGINIA BEACH	WD4SDC	449.00	444.00	N	P
VIRGINIA BEACH	WA4KXV	449.95	444.95	•	
WAYNESBORO	W4BLD	449.30	444.30	•	TPA
WILLIAMSBURG	W4NTG	448.95	443.95	M	
WINCH/BLUEMONT	WA4TSC	444.925	449.925	N	NB
WINCHESTER	W3CSG	447.00	442.00	M	
WOODBRIDGE	WB4FQR	444.90	449.90	M	

10 METERS

CHARLOTTESVILLE	WA4TFZ	29.60	29.60	D	RB
RICHMOND	N4MXT	29.52	29.62	N	P
STERLING	KD4DN	29.58	29.68	M	P

6 METERS

ABINGTON	WR4ATJ	52.01	53.01	M	L
ALEXANDRIA	WA4CCF	52.13	53.13	M	L
BEDFORD/THAX MT	WB4DBB	52.15	53.15	•	
CHARLOTTESVILLE	WA4TFZ	52.525	52.525	D	RB
DANVILLE(DCC)	WB4GJG	52.13	53.13	D	
FAIRFAX	KA4DCS	52.58	52.48	M	NB
FAIRFAX STA	WD4KHP	52.64	52.84	N	NB
LEXNGTN/COLE MT	K4PQD	52.01	53.01	N	L
LOUISA	KA4NNN	52.07	53.07	D	
NORTN/HIGH KB	K4LSP	52.01	53.01	N	
RICHMOND	NB4B	52.43	53.43	N	
RIDGEWAY	KE4FJ	52.25	53.25	N	
ROANOKE	WB4DBB	52.25	53.25	•	L

PACKET

ACCOMAC	KJ4AG-1	145.01	PKET	•	K
ACCOMAC	KJ4AG-2	145.03	PKET	•	K
BEAR DEN MT	W4BLD-1	145.01	PKET	•	K
BLUEFIELD	KD8MZ	145.01	PKET	•	K
CHARLOTTESVILLE	WA4TFZ-2	145.01	PKET	N	K
COVINGTON	WA4PGI-1	145.01	PKET	N	K
FORK MTN	WA4FRV-3	145.01	PKET	N	
FREDERICKSBURG	KB4OB-1	145.01	PKET	M	K
GARRISONVILLE	AA4PB-1	145.01	PKET	N	K
HAMPTON	K4UMI-5	145.01	PKET	N	K
HAMPTON	K4UMI-1	145.01	PKET	N	K
LYNCHBURG	K4LKQ-1	145.01	PKET	N	K
MIDDLEBURG	WA4TSC-1	145.01	PKET	N	K
ONEIDA	WB4BBF-2	145.01	PKET	•	K
PETERSBURG	K4ARO-2	145.05	PKET	•	K
RICHMOND	K4ARO-1	145.01	PKET	•	K
ROANOKE	N4FHL-1	145.01	PKET	N	K
STEPHENS CITY	W3CSG	145.01	PKET	N	K
VIRGINIA BEACH	WA4KXV-1	145.01	PKET	•	K
WASHINGTON, D.C.	WB4JFI-5	145.01	PKET	N	K
WOODBRIDGE	WB4FQR-4	145.01	PKET	N	K
WOODBRIDGE	KA4USE-1	145.07	PKET	N	K
WYTHE/HILL/PUL	KC4VR-1	145.01	PKET	•	K

SOUTH CAROLINA REPEATERS

2 METERS

AIKEN	N4ADM	147.885	147.285	D	
ANDERSON	N4SZ	146.37	146.97	D	PA
ANDERSON/SAS MT	W4FVV	146.19	146.79	D	
BAMBERG	WA4DFP	144.73	145.33	N	
BARNWELL	WA4FOF	147.63	147.03	•	
BIG KNOB/GREY CT	KB4YF	146.265	146.865	•	
CHARLESTON	WB4URP	144.65	145.25	N	
CHARLESTON	K4ILT	146.16	146.76	N	PA
CHARLESTON	W4IVE	146.19	146.79	N	
CHARLESTON	WB4LET	147.87	147.27	•	PA
CHARLESTON	K4LWS	147.90	147.30	N	A
CHELSEA	KB4GY	146.01	146.61	N	
CHERAW	KA4ABW	147.735	147.135	N	PA
CHESTER	KB4FJX	146.025	146.625	N	P
COLUMBIA	WB4QJF	144.57	145.17	N	
COLUMBIA	N4HWU	144.83	145.43	•	PA
COLUMBIA	WB4NEP	146.115	146.715	N	PA
COLUMBIA	K4AVU	146.28	146.88	N	
COLUMBIA	WA4KIO	147.93	147.33	D	
DILLON/PEE DEE	NN4N	146.145	146.745	D	EA
FLORENCE	W4ULH	146.25	146.85	N	A
FLORENCE	WA4ISM	146.37	146.97	D	PA
FT JACKSON	WB4OCB	146.16	146.76	N	
FT MILL/CAROWND	AA4SC	147.78	147.18	D	
GASTON	WB4NEP	144.61	145.21	N	PA
GEORGETOWN	WD4DMI	147.975	147.375	D	
GOOSE CREEK	W4NAT	147.78	147.18	N	
GREENVILLE	W4IQQ	146.34	146.94	N	
GREENVILLE	K4LEO	147.975	147.375	•	T
GREENWOOD	KB4YF	147.765	147.165	•	A
GREENWOOD/HODGES	KB4CS	144.53	145.13	N	
GRNVLE/CSRS HD	W4NYK	146.01	146.61	•	
GRNVLE/PARIS MT	W4NYK	146.22	146.82	•	PA
HILTON HEAD	N1BAL	147.84	147.24	N	
INMAN	WD8OXE	144.87	145.47	D	
LAKE MARION	W4DTW	147.825	147.225	•	A
LANCASTER	W4PAX	146.10	146.70	•	
LANCASTER	WB4BGF	147.84	147.24	N	
LEXINGTON/LIT MT	KA4FEC	147.99	147.39	•	
LITTLE MT.	K4AVU	147.81	147.21	N	
MARION	W4YLT	146.40	147.00	N	EA
MONCKS CORNER	KA4BJM	147.75	147.15	N	
MT PLEASANT	K4ESG	146.385	146.985	D	PA
MT PLEASANT	K4LWS	147.90	147.30	D	PA
MYRTLE BEACH	K4IQM	146.01	146.61	N	PA
MYRTLE BEACH	WA4YGE	147.72	147.12	N	
MYRTLE BEACH, N	WA4JYR	147.63	147.03	N	PA
N. AUGUSTA	K4FKJ	146.13	146.73	•	
NEWBERRY	KB4CO	146.085	146.685	D	
ORANGEBURG	WR4AQY	147.69	147.09	N	A
PICKENS	WB4YXZ	146.40	147.00	D	
RKY RDG/WALLACE	KA4ABW	144.89	145.49	D	
ROCK HILL	KA4RFA	144.71	145.31	N	LPA
ROCK HILL	N4CWZ	146.325	146.925	D	PA
ROCK HILL	K4YTZ	146.43	147.03	D	PA
ROCKY SPUR	KS4I	147.885	147.285	N	
SENECA/LONG MT	WA4JRJ	147.87	147.27	N	
SIMPSONVILLE	WD4BJY	146.13	146.73	•	
SIMPSONVILLE	WA4SDT	147.75	147.15	N	R
SPARTANBURG	WD8OXE	147.69	147.09	N	PA
SUMMERVILLE	K7ZGW	147.96	147.36	N	EAP
SUMTER	WS4P	146.04	146.64	•	
SUMTER	WA4UMU	147.615	147.015	•	EA
SUMTER	W4VFR	147.66	147.06	•	A
WHITE HALL	W4BWZ	146.31	146.91	N	

220 MHZ

COLUMBIA	N4EOY	223.30	224.90	•	RB
EASLEY/SASFRS MT	AJ4N	222.46	224.06	D	
GREER	W4ILY	222.38	223.98	N	PA
LITTLE MT	KA4FEC	222.52	224.12	•	
PICKENS/CSRS HD	WB4QHF	222.54	224.14	D	PA

440 MHZ

ANDERSON/SAS MT	WD4BUH	449.925	444.925	D	
CAESARS HEAD	WB4LZQ	448.875	443.875	N	
COLUMBIA	KC4YI	449.10	444.10	•	
LEXINGTON	N4GUP	439.25	421.25	•	V
MT PLEASANT	N4DRU	449.70	444.70	N	
PICKENS/CSRS HD	WA6WAY	447.00	442.00	D	
ROCK HILL	KA4RFA	449.75	444.75	N	LPA
SUMMERVILLE	WA4HNK	443.80	448.80	N	NB
SUMTER	WA4UMU	439.25	423.25	•	V

6 METERS

COLUMBIA	N4GQH	52.15	53.15	N	
COPE	N4HSN	52.05	53.05	N	
PICKENS	WB4YXY	52.41	53.41	D	

PACKET

ANDERSON	W4FX-1	145.01	PKET	D	K
CHARLESTON	N4LYF-1	145.01	PKET	N	
COLUMBIA	N4EOY-1	145.01	PKET	•	K
COLUMBIA	N4HWU-1	145.03	PKET	•	K
CONWAY	WA4TKM-1	145.01	PKET	N	K
FLORENCE	W4ULH-1	145.01	PKET	N	K
LANCASTER	K4WJR-1	145.01	PKET	N	K
SUMTER	WS4P-1	145.01	PKET	•	K

WEST VIRGINIA REPEATERS

2 METERS

ALDERSON	WA8AVZ	146.13	146.73	N	
BECKLEY/EOC	N8FWL	144.77	145.37	•	LA
BECKLEY/FLAT TOP	K8BO	146.25	146.85	•	A
BLUEFIELD	W8MOP	144.89	145.49	D	
BLUFLD/FLAT TOP	KD8MZ	146.025	146.625	D	
BOLT MT	N8DKL	144.57	145.17	D	L
BRIDGEPORT	K8VNQ	147.72	147.12	•	EAL
BUCHANNON	N8FHE	144.53	145.13	D	
BUCKHANNON	WD8LND	144.81	145.41	N	
BUCKHANNON	K8WYH	146.25	146.85	N	
BURLINGTON	N8FMD	146.145	146.745	N	C
CHARLESTON	W8WHQ	144.83	145.43	N	
CHARLESTON	WB8IFS	146.22	146.82	N	
CHARLESTON	WB8CQV	146.28	146.88	N	
CHARLESTON	KD8TC	147.81	147.41	N	C
CLARKSBURG	N8FMD	146.22	146.82	D	
CLARKSBURG	KA8OHX	147.915	147.315	N	
CRAIGSVILLE	KD8OG	144.67	145.27	D	L
DUNBAR	K8VKI	147.72	147.12	•	EA
FAIRMONT	W8SP	146.30	146.90	D	NB

MORE WEST VIRGINIA REPEATERS

FRANKLIN	W3RUA	147.945	147.345	•	
GASSAWAY	WB8MZI	146.01	146.61	N	
GRAFTON	K8VNQ	147.975	147.375	•	L
HARRISVILLE	WB8NSL	147.90	147.30	N	
HUNTINGTON	WB8FEQ	144.61	145.21	D	R
HUNTINGTON	W8VA	146.16	146.76	•	A
HUNTINGTON	KA8BKX	147.90	147.30	N	PA
HUNTINGTON/CHAS	WB8EZR	146.04	146.64	•	
KINGSTON/LICK KB	W8FG	144.87	145.47	•	L
LAYLAND/MANN MT	N8BZS	144.71	145.31	D	L
LEON	WB8NMT	147.78	147.18	N	
LOGAN	WA8ZLR	146.09	147.11	N	ONB
LOGAN/BLAIR MT	WD8DRV	144.63	145.23	•	
LOGAN/WARD RK MT	WD8DRV	146.37	146.97	•	A
MADISON	KA8JYR	146.06	147.06	N	NB
MARMET/BEE MT	N8DBN	144.55	145.15	N	
MARTINSBURG	WA8FSE	144.55	145.15	M	
MARTINSBURG	WB8VAZ	147.855	147.255	M	
MCMECHEN	WA8ULB	146.31	146.91	D	
MORGANTOWN	K8LG	144.83	145.43	N	AL
MORGANTOWN	W8CUL	146.16	146.76	•	LPA
MT STORM	K8VNQ	147.705	147.105	•	L
MULLENS/HRNDN MT	KC8IT	147.63	147.03	D	LARB
NEW MARTINSVILLE	WB8CSW	146.34	146.94	•	
NEW MARTINSVLLE	WB8CSW	147.54	146.94	•	NB
OAK HILL	K8CFT	146.19	146.79	•	EA
PARKERSBURG	WA8CRW	146.37	146.97	D	
PARKERSBURG	W8JZN	147.99	147.39	D	
PARSONS	K8VNQ	144.73	145.33	•	EAL
POINT PLEASANT	W8KNM	147.66	147.06	N	
PRINCETON	KC8WL	146.46	147.06	D	A
PRINCETON/PIPEST	WD8OGY	146.325	146.925	N	A
RAVENSWOOD	WD8JNU	146.07	146.67	D	
RAVENSWOOD	WD8JNU	146.10	146.70	D	R
SALT POND/MT LK	KD8MZ	146.265	146.865	•	
SALT ROCK	WD8MCR	144.51	145.11	N	
SCOTT DEPOT	K8SLI	147.87	147.27	N	A
SHERRARD	KD8GL	146.115	146.715	D	EAL
SPRUCE KNOB	N8HON	146.055	146.655	•	
ST ALBANS	WB8GDY	146.40	147.00	•	
ST ALBANS	K8WMX	147.975	147.375	•	R
ST ALBANS/COAL	KA8SVR	147.75	147.15	N	
ST MARYS/BENS R	WB8ECC	147.63	147.03	N	L
SUMMERSVILLE	K8VKB	146.34	146.94	•	
TERRA ALTA	KD8ZR	147.60	147.00	•	PA
WEIRTON	KC8JN	146.34	146.94	N	A
WELCH	WB8SXZ	144.85	145.45	N	
WESTON	WD8EOM	144.79	145.39	N	PAL
WHEELING	WB8JGY	144.59	145.19	N	
WHEELING	W8JDH	146.16	146.76	N	
WILLIAMSON	KE8FR	144.73	145.33	D	PA

KC8FD
Jack

220 MHZ

HUNTINGTON	KA8BKX	222.54	224.14	N	
KINGSTON/LICK KB	W8FG	223.14	224.74	•	
WILLIAMSON	N8ENR	223.00	224.60	N	P

440 MHZ

BRIDGEPORT	WB8DKM	447.20	442.20	•	
BUCKHANNON	N8FHE	448.10	443.10	•	
HERNDON/HRNDN MT	N8CYH	449.00	444.00	D	RB
HUNTINGTON	KA8QYU	449.50	444.50	D	
LICK KNOB	N8FRV	449.80	444.80	D	
LOGAN/WARD RK	WB8FQJ	449.40	444.40	D	P
MORGANTOWN	K8LG	449.70	444.70	N	L
MORGANTOWN	W8CUL	449.80	444.80	•	PAL
S. CHARLESTON	WB8CQV	449.95	444.95	N	
ST ALBANS	WD8OZT	449.60	444.60	D	

6 METERS

BOLT/BOLT MT	N8DKL	52.05	53.05	N	
DANVILLE/MADSN	K8JYR	52.06	53.66	N	NB
HERNSHAW/BEE MT	KA8SVR	52.09	53.69	N	NB
RAND	N8CDE	52.12	53.72	N	NB
ST ALBANS/COAL	WD8JKA	52.03	53.63	N	NB
ST MARYS/BENS R	WD8RET	52.17	53.17	N	L

PACKET

HUNTINGTON	KA8EUV-1	145.01	PKET	N	
LOGAN/BLAIR MT	WB8FQJ-1	145.01	PKET	D	K
MORGANTOWN	N8BHI-1	145.01	PKET	•	K
ST ALBANS	K8SLI-1	145.01	PKET	N	
TERRA ALTA	KD8ZR	145.01	PKET	•	K

DISTRIBUTION OF REPEATERS BY FREQUENCY

	EAJ	OAK RIDGE	TN
	QKH	TAZEWELL	VA
	SVR	ST ALBANS/COAL	WV
7.765/7.165	TCU	DOUGLAS	GA
	RT	HIGH POINT	NC
	YF	GREENWOOD	SC
	LSP	BRISTOL/HLSTN MT	TN
	CEX	PURYEAR	TN
	CTF	NEWPORT NEWS	VA
	FJT	WARRENTON	VA
7.78 /7.18	BMA	AUGUSTA	GA
	NHW	BALDWIN	GA
	BI	SYCAMORE	GA
	EJJ	SANFORD	NC
	CTJ	WILMINGTON	NC
	SC	FT MILL/CAROWND	SC
	NAT	GOOSE CREEK	SC
	KOG	MEMPHIS	TN
	PCD	NASHVILLE	TN
	DES	POLK CTY/OSWALD	TN
	KAF	PETERSBURG	VA
	Z	PKS KB/PULASKI	VA
	NMT	LEON	WV
7.795/7.195	SMX	ATLANTA	GA
	WB	MURPHY	NC
	RTS	LYNCHBURG	VA
7.81 /7.21	SG	CONYERS	GA
	LN	DALTON	GA
	D	STATESBORO	GA
	BUZ	GREENSBORO	NC
	MSD	WHITEVILLE	NC
	AVU	LITTLE MT.	SC
	WS	COOKEVILLE	TN
	WKZ	JACKSON	TN
	IWG	MCLEAN	VA
	AXO	WISE/HIGH KNOB	VA
7.825/7.225	LVY	SUMMERVILLE	GA
	WTX	HILLSBOROUGH	NC
	DTW	LAKE MARION	SC
	OAH	MORRISTOWN	TN
	SDC	YORKTOWN	VA
7.84 /7.24	DII	ASHLAND	EKY
	NFG	IRWINTON	GA
	NIW	CARTHAGE	NC
	ACP	EDEN/MAYODAN	NC
	BKU	FOREST CITY	NC
	GHZ	FRANKLIN	NC
	BAL	HILTON HEAD	SC
	BGF	LANCASTER	SC
	NIT	GALLATIN	TN
	APK	MEMPHIS	TN
	ARO	PETERSBURG	VA
	FQR	WOODBRIDGE	VA
7.855/7.255	KDT	ATLANTA	GA
	AV	ASHEBORO	NC
	KNI	HENDSVL/PINCK MT	NC
	TVS	ACCOMAC	VA
	DCX	GRUNDY/BIG A MT	VA
	VAZ	MARTINSBURG	WV
7.885/7.255	BZU	DONELSON	TN
7.87 /7.27	PJE	FORT PAYNE	AL
	GEL	PIKEVILLE	EKY
	VBH	AMERICUS	GA
	H	BENSON	NC
	SM	WAYNESVILLE	NC
	LET	CHARLESTON	SC
	JRJ	SENECA/LONG MT	SC
	YQC	GALLATIN	TN
	FH	JOHNSON CITY	TN
	GX	GUM SPRING	VA
	SLI	SCOTT DEPOT	WV
7.885/7.285	BI	ASHBURN	GA
	VBX	ATLANTA/GPCO	GA
	ADM	AIKEN	SC
	I	ROCKY SPUR	SC
	MJM	PIKEVILLE	TN
	L	MARTINSVILLE	VA
7.90 /7.30	HNM	ROME	GA
	HNM	SVR CRK/MT ALTO	GA
	HON	WARNER ROBINS	GA
	YJG	GLENDALE SPGS	NC
	ATW	JACKSONVILLE	NC
	NHV	LUMBERTON	NC
	OMV	TUCKASEGEE	NC
	LWS	CHARLESTON	SC
	LWS	MT PLEASANT	SC
	BBB	KNOXVILLE	TN
	ADT	MEMPHIS	TN
	ZSA	NASHVILLE	TN
	SPS	FRANKLIN	VA
	TSC	WINCH/BLUEMONT	VA
	NSL	HARRISVILLE	WV
	BKX	HUNTINGTON	WV
7.915/7.315	RBW	UNION CROSS	NC
	HFH	ALEXANDRIA	VA
	OHX	CLARKSBURG	WV
7.92 /7.32	HWQ	GRUNDY	VA
7.93 /7.33	KWH	ASHLAND	EKY
	BXO	LAGRANGE	GA
	DIP	TOCCOA	GA
	LPL	FAYVLLE/FT BRAGG	NC
	K	LENOIR/HIBRITN	NC
	KIO	COLUMBIA	SC
	VXW	COVINGTON	TN
	CV	CROSSVILLE	TN
	AJS	NASHVILLE	TN
	PQD	LEXNGTN/COLE MT	VA
	ZIP	WARSAW	VA
7.94 /7.34	UPC	ATLANTA/SWEAT MT	GA
7.945/7.345	IZD	LYNCH/BLACK MT	EKY
	NYR	SHELBY	NC
	TEP	WASHINGTON	NC
	WF	HENDERSONVILLE	TN
	VR	WYTHE/HILL/PUL	VA
	RUA	FRANKLIN	WV
7.95 /7.35	YZR	DANVILLE	VA
7.96 /7.36	EO	DOUGLASVILLE	GA
	HZX	DUBLIN	GA
	KDB	BOONE/RICH MTN	NC
	Z	LUMBERTON	NC
	ZGW	SUMMERVILLE	SC
	OAK	KNXVL/CROSS MT	TN
	MMI	MEMPHIS	TN
	NTM	NASHVILLE S.	TN
	KLX	PARIS	TN
	CBB	CHESTERFIELD	VA
7.975/7.375	TQU	ATHENS	GA
	YN	BURNSVILLE	NC
	ROK	GREENVILLE	NC
	DMI	GEORGETOWN	SC
	LEO	GREENVILLE	SC
	BTJ	HILLSVILLE	VA
	ILD	LYNCHBURG	VA
	OHX	NEWPORT NEWS	VA
	VNQ	GRAFTON	WV
	WMX	ST ALBANS	WV
7.99 /7.39	PDJ	JENKINS	EKY
	IMK	THOMASTON	GA
	PLY	CHARLOTTE	NC
	QBG	EDEN/STONEVILLE	NC
	MKL	SMITHFIELD	NC
	FEC	LEXINGTON/LIT MT	SC
	ZLA	DAYTON/RHEA CTY	TN
	SBX	GRAY	TN
	AJO	MADISON	VA
	ARO	PETERSBURG	VA
	JZN	PARKERSBURG	WV
7.81 /7.41	TC	CHARLESTON	WV
6.19 /7.61	FZJ	MEMPHIS	TN
7.015/7.615	YGM	UNION CITY	TN
7.315/7.915	SPJ	FORSYTH	GA

220 MHZ

3.70 /PKET	GQX	SAWNEE MT/CUMMIN	GA
2.12 /3.72	PGA	LOUISA	EKY
2.30 /3.90	RAB	HERMITAGE	TN
2.32 /3.92	AZA	HIGH POINT	NC
2.34 /3.94	QK	ASHLAND	EKY
	UPC	ATLANTA/SWEAT MT	GA
	BVW	ASHVL/MT PISGAH	NC
	WTX	HILLSBOROUGH	NC
	GP	CLARKSVILLE	TN
	ZJM	MEMPHS/FRAYSER	TN
2.36 /3.96	C	ROCKY MOUNT	NC
2.38 /3.98	HUV	LINWOOD	NC
	ILY	GREER	SC
	ZSA	GALLATIN	TN
2.40 /4.00	ZIA	LOCUST	NC
	ARO	PETERSBURG	VA
2.42 /4.02	EHF	FAYETTEVILLE	NC
	MDW	HICKORY	NC
	TB	NASHVILLE	TN
2.46 /4.06	UPC	BUCHANAN/HARALSO	GA
	N	EASLEY/SASFRS MT	SC

REPEATERS BY FREQUENCY CONTINUED

2.48 /4.08	UEX	NASHVILLE	TN
2.50 /4.10	YHD	FAIRFAX	VA
	DBB	ROANOKE	VA
2.52 /4.12	UPC	ATLANTA/SWEAT MT	GA
	FEC	LITTLE MT	SC
2.54 /4.14	WOR	LUMBERTON	NC
	QHF	PICKENS/CSRS HD	SC
	SGS	FRANKLIN	TN
	BKX	HUNTINGTON	WV
2.56 /4.16	K	LENOIR/HIBRITN	NC
2.58 /4.18	TAG	HICKORY VALLEY	TN
2.62 /4.22	AWB	NASHVILLE	TN
2.64 /4.24	KNI	HENDSVL/BERWLW M	NC
2.66 /4.26	NP	MT. JULIET	TN
	QKH	TAZEWELL	VA
2.70 /4.30	PVI	STATESVILLE	NC
2.72 /4.32	JBF	THOMASVILLE	GA
2.74 /4.34	UPC	CANTON	GA
	DFH	FRIES/PT LKOUT	VA
2.76 /4.36	YTO	MARSHALL	NC
2.80 /4.40	ZC	CHARLT/MINT HL	NC
2.84 /4.44	OG	NASHVILLE	TN
2.86 /4.46	YON	KNOXVILLE	TN
2.90 /4.50	KSM	CANTON	GA
	BBB	KNOXVILLE	TN
2.94 /4.54	BVW	MT MITCHELL	NC
2.96 /4.56	DOC	ATLANTA	GA
	JEH	CONYERS	GA
2.98 /4.58	F	PIKEVILLE	EKY
3.00 /4.60	N	ASHEVILLE	NC
	ENR	WILLIAMSON	WV
3.02 /4.62	ETG	PIKEVILLE	EKY
3.04 /4.64	PEN	RALEIGH	NC
	YHH	WINSTON-SALEM	NC
3.08 /4.68	KPF	LK NORMN/CLT	NC
3.10 /4.70	RXG	SAURATOWN MT	NC
3.12 /4.72	MSK	MT. TOXAWAY	NC
	KHP	TYSONS CORNER	VA
3.14 /4.74	KVC	DALTON	GA
	FG	KINGSTON/LICK KB	WV
3.16 /4.76	EXU	SALISBURY	NC
	OAK	DAN/WHT OAK	VA
3.18 /4.78	VCM	CHATTANOOGA	TN
3.20 /4.80	PML	MORGANTON	NC
3.22 /4.82	C	ATLANTA	GA
	IKY	GIBSONVILLE	NC
	CCF	ALEXANDRIA	VA
3.28 /4.88	BZJ	DALTON	GA
	RXG	SAURATOWN MT	NC
3.30 /4.90	QPL	MARIETTA	GA
	EOY	COLUMBIA	SC
	ZOK	CHATT/SIGNAL MT	TN
3.34 /4.94	I	AUGUSTA	GA
	UPC	BUCHANAN/HARALSO	GA
	KBD	JACKSONVILLE(FL)	GA
	EV	ROSSVILLE	GA
	NKM	GREENEVILLE	TN
	DBB	ROANOKE/POOR MTN	VA
3.36 /4.96	UDS	CHERRYVILLE	NC
	JVX	GOLDSBORO	NC
3.38 /4.98	CHP	FALLS CHURCH	VA

440 MHZ

9.45 /5.67	KEZ	LAWRENCEVILLE	GA
9.25 /1.25	KIP	ATLANTA	GA
	AZA	SAURATOWN MT	NC
	GUP	LEXINGTON	SC
	UMU	SUMTER	SC
	GGK	LEWISVILLE	NC
	WIN	NORFOLK	VA
	AAG	ALEXANDRIA	VA
	MM	ALBANY	GA
	NYR	SHELBY	NC
	ZOK	CHATT/SIGNAL MT	TN
7.00 /2.00	WAY	PICKENS/CSRS HD	SC
	CSG	WINCHESTER	VA
7.05 /2.05	DXZ	LANOTT	AL
	XX	JASPER	TN
	BEZ	MEDINA	TN
7.10 /2.10	ACP	EDEN	NC
	ABJ	MILAN	TN
7.15 /2.15	BEA	RALEIGH	NC
7.20 /2.20	BJY	JACKSON	TN
	DKM	BRIDGEPORT	WV
7.25 /2.25	HTI	COVINGTON	VA
7.325/2.325	JSR	CHATTANOOGA	TN
7.50 /2.50	NTZ	KNOXVILLE	TN
	CA	ROANOKE/POOR MT	VA
7.55 /2.55	JEH	CONYERS	GA
7.70 /2.70	HON	ROANOKE	VA
7.80 /2.80	EPG	JACKSON	TN
	QWW	MEMPHIS	TN
7.90 /2.90	AZA	HIGH POINT	NC
8.00 /3.00	EO	CHATSWORTH	GA
	ZJM	MEMPHIS	TN
8.05 /3.05	JVX	GOLDSBORO	NC
	PUB	MT JULIET	TN
8.10 /3.10	IZD	LYNCH/BLACK MT	EKY
	GGC	SAURATOWN MT	NC
	FHE	BUCKHANNON	WV
8.145/3.145	OCB	AUGUSTA	GA
8.20 /3.20	CLA	SWEAT MT	GA
	TAG	HICKORY VALLEY	TN
8.30 /3.30	KQI	WOODLEAF	NC
	KJH	GATLBG/COVE MT	TN
8.40 /3.40	DOR	MEMPHIS	TN
8.50 /3.50	LVH	ATLANTA	GA
	PQZ	GREENSBORO	NC
	WKS	PARIS/GROVE HL	TN
	GUS	TYSONS CORNER	VA
8.55 /3.55	XE	ROARING GAP	NC
8.60 /3.60	DWU	MT MITCHELL	NC
8.65 /3.65	UMI	HAMPTON	VA
8.70 /3.70	LXW	HIGH POINT	NC
	LBT	LOCUST	NC
8.75 /3.75	EDS	ALAMO	TN
	WIC	FINCASTLE	VA
8.30 /3.80	EAQ	MANASSAS	VA
8.80 /3.80	K	NORTHWEST/SE VA	VA
8.85 /3.85	IDB	FRANKLIN	TN
8.875/3.875	LZQ	CAESARS HEAD	SC
8.90 /3.90	GWA	GRIFFIN	GA
	EVG	CHESAPEAKE	VA
8.95 /3.95	NTG	WILLIAMSBURG	VA
9.00 /4.00	QDX	LAWRENCEVILLE	GA
	JEQ	HICKORY	NC
	SDC	VIRGINIA BEACH	VA
	CYH	HERNDON/HRNDN MT	WV
9.05 /4.05	PQD	MARIETTA	GA
	OG	NASHVILLE	TN
	BLD	AFTON MT	VA
7.075/4.075	DOC	ATLANTA	GA
8.10 /4.10	G	FAYETTEVILLE	TN
9.10 /4.10	KBD	JACKSONVILLE(FL)	GA
	WTX	DURHAM	NC
	YI	COLUMBIA	SC
	NFO	CHATTANOOGA	TN
	JXT	MEMPHIS	TN
9.15 /4.15	LDR	ATLANTA/BELL	GA
	NTM	NASHVILLE	TN
	PQD	LEXNGTN/COLE MT	VA
	VA	SPRINGFIELD	VA
8.175/4.175	DOC	ATLANTA	GA
9.20 /4.20	QHN	COLUMBUS	GA
	LEM	DECATUR	GA
	NEX	MORRISTOWN	TN
9.25 /4.25	BOC	ATLANTA/STONE MT	GA
	KNI	HENDSVL/BERWLW M	NC
	FUD	SMYRNA	TN
	TFZ	CHARLOTTESVILLE	VA

440 MHZ

9.30 /4.30	DDS	FISHERVILLE	TN
	HXD	KNOXVILLE	TN
	BLD	WAYNESBORO	VA
8.35 /4.35	GGN	N. WILKESBORO	NC
9.35 /4.35	JF	TIFTON	GA
	DBB	BEDFD/APL ORCH	VA
9.40 /4.40	ZW	FAYETTEVILLE	NC
	EAJ	OAK RIDGE	TN
	FQJ	LOGAN/WARD RK	WV
9.425/4.425	ISI	ALTAVISTA	VA
9.45 /4.45	KEZ	LAWRENCEVILLE	GA
	KWF	GALLATIN	TN
	CRK	FALLS CHURCH	VA
9.475/4.475	IU	RINGGOLD	GA
9.50 /4.50	MM	ALBANY	GA
	UWL	ATLANTA	GA
	IZF	MEMPHIS	TN
	HEX	LYNCHBURG	VA
	QYU	HUNTINGTON	WV
9.55 /4.55	NEF	TYRONE	GA
	PCD	NASHVILLE	TN
9.60 /4.60	BFB	CHARLOTTE	NC
	NK	KNOXVILLE	TN
	HFH	ALEXANDRIA	VA
	OZT	ST ALBANS	WV
9.625/4.625	WQ	ATLANTA	GA
	MZ	BLUEFIELD	VA
9.65 /4.65	EXU	SALISBURY	NC
	KNU	WILLIAMSTON	NC
	NKM	GREENEVILLE	TN
	ARO	RICHMOND	VA
9.675/4.675	AY	NASHVILLE	TN
9.70 /4.70	HHH	ELLIJAY	GA
	JEH	ROCKY MOUNT	NC
	BR	WILMINGTON	NC
	DRU	MT PLEASANT	SC
	GBI	KNOXVILLE	TN
	MMI	MEMPHIS	TN
	LG	MORGANTOWN	WV
9.735/4.735	TIW	DALTON	GA
9.75 /4.75	RFA	ROCK HILL	SC
	BFS	ELIZ/HOLSTON MT	TN
	JYF	TYSONS CORNER	VA
9.775/4.775	QES	NASHVILLE	TN
9.80 /4.80	J	GREENVILLE	NC
	UY	MT AIRY/FSH PK	NC
	APK	MEMPHIS	TN
	MIC	OILVILLE	VA
	FRV	LICK KNOB	WV
	CUL	MORGANTOWN	WV
9.825/4.825	XD	STAUNTON	VA
9.85 /4.85	CQ	CHARLOTTE	NC
	ARO	PETERSBURG	VA
9.875/4.875	THG	NASHVILLE	TN
9.90 /4.90	COS	ASHVL/MT PISGAH	NC
	ZW	FAYETTEVILLE	NC
	VBC	NEW BERN	NC
	J	WILSON	NC
	MMI	MEMPHIS	TN
9.925/4.925	NNO	ATLANTA	GA
	BUH	ANDERSON/SAS MT	SC
9.95 /4.95	I	AUGUSTA	GA
	KIN	PERRY	GA
	WXL	RALEIGH	NC
	WRN	STAUNTON	VA
	KXV	VIRGINIA BEACH	VA
	CQV	S. CHARLESTON	WV
9.975/4.975	YNZ	ATLANTA	GA
	TVE	BRUNSWICK	GA
	QES	NASHVILLE	TN
6.65 /6.65	DBB	ROANOKE	VA
3.50 /8.50	LBH	CONYERS	GA
3.80 /8.80	HNK	SUMMERVILLE	SC
4.225/9.225	JCE	MANASSAS	VA
4.40 /9.40	KOG	MEMPHIS	TN
4.825/9.825	DOC	ATLANTA	GA
4.90 /9.90	OLL	MACON	GA
	FQR	WOODBRIDGE	VA
4.925/9.925	TSC	WINCH/BLUEMONT	VA
2.01 /ACON	DRL	FISHERVILLE	TN

10 METERS

9.50 /9.50	TFZ	CHARLOTTESVILLE	VA
9.52 /9.62	LVH	ATLANTA	GA
	XE	WILKESBORO	NC
	IOB	KNXVL/ENG MT	TN
	ZJM	MEMPHIS/FRAYSER	TN
	MXT	RICHMOND	VA
9.54 /9.64	KBD	JACKSONVILLE(FL)	GA
9.56 /9.66	IS	MARIETTA	GA
	ACP	EDEN	NC
9.58 /9.68	MM	ALBANY	GA
	DN	STERLING	VA

6 METERS

2.58 /2.48	DCS	FAIRFAX	VA
2.525/2.525	YAO	HENDERSONVILLE	NC
	AZA	HIGH POINT	NC
	TFZ	CHARLOTTESVILLE	VA
2.76 /2.525	AAL	KNOXVILLE	TN
2.64 /2.84	KHP	FAIRFAX STA	VA
2.01 /3.01	YAO	HENDERSONVILLE	NC
	GRW	NEWPORT	NC
	LRD	CHATTANOOGA	TN
	KOG	MEMPHIS	TN
	ATJ	ABINGTON	VA
	PQD	LEXNGTN/COLE MT	VA
	LSP	NORTN/HIGH KB	VA
2.03 /3.03	DTS	ROANOKE RAPIDS	NC
2.05 /3.05	UPC	ATLANTA/SWEAT MT	GA
	HSN	COPE	SC
	DKL	BOLT/BOLT MT	WV
2.07 /3.07	DAP	ROCKY MOUNT	NC
	NNN	LOUISA	VA
2.13 /3.13	KIN	PERRY	GA
	UCE	COOKEVILLE	TN
	CCF	ALEXANDRIA	VA
	GJG	DANVILLE(DCC)	VA
2.15 /3.15	GQH	COLUMBIA	SC
	YON	KNOXVILLE	TN
	IOB	KNXVL/ENG MT	TN
	DBB	BEDFORD/THAX MT	VA
2.17 /3.17	RET	ST MARYS/BENS R	WV
2.23 /3.23	NNE	GUTHRIE (TN/KY)	TN
2.25 /3.25	FJ	RIDGEWAY	VA
	DBB	ROANOKE	VA
2.27 /3.27	DRL	EADS	TN
2.33 /3.33	EHV	SAPPHIRE	NC
2.35 /3.35	AVP	CARY	NC
	GBI	KNOXVILLE	TN
2.41 /3.41	YXY	PICKENS	SC
2.43 /3.43	B	RICHMOND	VA
2.45 /3.45	MPM	FLAT GAP	EKY
	KWP	GALLATIN	TN
2.47 /3.47	MDW	HICKORY	NC
2.55 /3.55	JEH	CONYERS	GA
2.03 /3.63	JKA	ST ALBANS/COAL	WV
2.06 /3.66	JYR	DANVILLE/MADSN	WV
2.67 /3.67	WRS	STATESVILLE	NC
2.09 /3.69	SVR	HERNSHAW/BEE MT	WV
2.12 /3.72	CDE	RAND	WV

920 MHZ

8.00 /0.00	PAR	LEXINGTON	NC
9.00 /1.00	PAR	LEXINGTON	NC

Listings For

Virginia
West Virginia
North Carolina
South Carolina
Tennessee
Eastern Kentucky
Georgia

Get a friend to join CVRA-SERA as an Associate Member.

VEC EXAMINATIONS

The Repeater Journal will be glad to publish your examination dates in future issues. Please send your examination schedules to the Editor. Deadlines are the same as regular news

TENNESSEE EXAMS

R.A.C.K VE TEAM

For prior registration send: Copy of license, form 610 completed, check for $4.00 payable to WCARS/VEC, SASE. Sent pre-registration to: Ray Adams, N4BAQ, 4325 Felty Drive, Knoxville, Tn. 37918. All tests begin at 10 a.m. at the Tennessee Inst. of Electronics, 3203 Tazwell Pike in Knoxville, Tn. Cutoff dates for exams is day before exams.

Special Exam Dates

March 1 - (Morristown Swapfest)
April 22 - Oak Ridge Hamfest
May 24-25 - Knoxville Hamfest

Regular Exam Dates

June 21 July 19
August 16 November 15
December 20

WEST VIRGINIA

FAIRMONT

Amateur exams will be given on the dates listed below at Fairmont, WV. For further information, contact KU8C, Robert Robinson, Rt. 3, Box 302, Fairmont, WV. 26554, phone (304) 366-0132. On the exam dates listed, pre-registration dates are listed in parenthesis.

1987 Examination Schedule

10 FEB (13 Jan) 11 AUG (14 Jul)
12 MAY (14 Apr) 10 NOV (23 Oct)

E. KENTUCKY

PIKEVILLE

VE Amateur examinations will be held at the East Kentucky Beverage Co., 5-miles north of Pikeville on U.S. Rt. 23. All Exams are walk-in.

Pikeville Schedule

March 7 September 5
June 6 December 5

GEORGIA

AUGUSTA

ARRL/VEC examinations will be held in Augusta. For information, contact C.L. "Ace" Norton, NA4I, 2704 Lumpkin Rd., Augusta, Ga. 30906. Phone (404) 798-5060. All exams at 9:00 a.m.

Augusta Schedule

March 14 September 20
June 13 December 6

NORTH CAROLINA

AE4N/MARK 4 VEC
Gbo/Jamestown

FCC exams to be conducted twice a month in 1986, at the GTCC, Davis Hall in Jamestown, N.C. Walk-in--Cost $3.00. Bring original and a copy of license, and some positive I.D. All classes of license exams are given and all testing materials are furnished. Any questions may be directed to Hugh Brunson (919) 852-1087 1900-2000 EST daily.

Davis Hall at GTCC is 6 miles south of Greensboro, N.C. Take Exit 118 off I-85 and follow GTCC signs. Talk-in also available on 146.61 and 145.25 if needed.

VIRGINIA

RICHMOND

ARRL/VEC Amateur Exams at the J. Sargeant Reynolds Community Collge, 1651 East Parham Road. Contact Ron Bolton, WU4G, Rt. 4, Box 455, Glen Allen, Va. 23060. (804) 798-5191. Limited Walkins. Please register if at all possible.

Exams cannot be given unless original license is in hand. Never mail original license with application for pre-registration. Make check for $4.35 payable to ARRL/VEC. Include S.A.S.E.

RICHMOND EXAM SCHEDULE

March 21 May 23
July 18 September 19
November 21

SOUTHEASTERN VIRGINIA - ROANOKE

SW Va. Wireless Association at American Red Cross Bldg., Roanoke, Va. Send completed 610 Form, copy of current license and any code credit forms, Check or Money Order for $4.35, payable to ARRL/VEC. DEADLINE for Pre-registration is FEB. 6th. A limit of 10 walk-ins will be accepted, first come-first served. Mail to: Gordon Garrett, Rt. 1, Box 464, Elliston, Va. 24087.

ROANOKE EXAM DATE
March 7, 8 a.m.

SOUTHEASTERN VIRGINIA

Unless otherwise noted, Advance registrations are requested to be received 30 days prior to test date. To register, send completed FCC form 610, with copy of license and check for $4.35 payable to ARRL/VEC. For exams by Hampton Roads Radio Assn., make check payable to them. In all cases include S.A.S.E. For exams with walk-ins, bring original current license.

SOUTHEASTERN SCHEDULE

FEB. 7 - Virginia Beach - Contact Tom Weikel, KA4UNC, 433 W. Farmington Rd., Va. Beach, Va. 23454
MAR. 7 - Hampton Roads - Contact H.E. Boomhower, AA4MB, 1900 Athens Ct., Chesapeake, Va. 23323.
APRIL 4 - Williamsburg - Contact Andrew G. Swanson, WJ4X, 259 Nottingham Rd., Williamsburg, Va. 23185.
MAY 2 - South Peninsula - Contact Sid Evans, N4IIC, 1842 S. Kensington Dr., Hampton 23663, WALK-INS ONLY.
JUNE 6 - Portsmouth - Contact George Parsons, WB4BAB, 4800 Manor Ave., Portsmouth, Va. 23703.
July 11 - Virginia Beach - Contact Tom Weikel, KA4UNC, 433 W. Farmington Rd., Virginia Beach, Va. 23454.
AUGUST 23 - Hampton Roads - Contact H.E. Boomhower, AA4MB, 1900 Athens Ct., Chesapeake, Va. 23323.
SEPTEMBER 19 - Williamsburg - Contact Andrew G. Swanson WJ4X, 259 Nottingham Rd., Williamsburg, Va. 23185.
OCTOBER 4 ARRL Va. State Convention - PAVILION - Virginia Beach. WALK-INS ONLY.
NOVEMBER 14 - Portsmouth - Contact George Parsons WB4BAB, 4800 Manor Ave., Portsmouth, Va. 23703.
DECEMBER 12 - Virginia Beach - Contact Tom Weikel, KA4UNC, 433 W. Farmington Rd., Virginia Beach, Va. 23454.

SOUTHWESTERN VIRGINIA

Three volunteer examiner teams in Southwestern Virginia have joined to offer examinations once a month until further notice. For additional information, contact Dave, NO4H in Council, Va., Ted, N4KSO in Lebanan, Va., or Don, WA4K in Bluefield, Va. All examinations coordinated by W5YI/VEC.

Four locations will share the monthly examinations: (1) Bluefield, WV - Bluefield State College (Code tests with headphones with adjustable volumes) (2) Richlands, Va.-Southwest Va. Community College (3) Grundy, Va. - Buchanan County Vocational School, and (4) Clintwood, Va. - Clinchco Elementary School.

SOUTHWESTERN VIRGINIA SCHEDULE

JANUARY - Grundy
FEBRUARY - Bluefield
MARCH - Richlands
APRIL - Clintwood
MAY - Bluefield
JUNE - Richlands
JULY - Grundy
AUGUST - Bluefield
SEPTEMBER - Richlands
OCTOBER - Clintwood
NOVEMBER - Bluefield
DECEMBER - Richlands

For exact dates and further information you may write or call, Donald L. Williams, Jr., WA4K, 412 Ridgeway Drive, Bluefield, Va. 24605 (703) 326-2411.

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OKYO HY-POWER • WELZ • KENPRO • SANTEC • KDK • TOKYO HY-POWER • WELZ • KENPRO

KDK The FM-240 for 2-Meters

If you've priced Today's "New" Transceivers - You probably have "Sticker Shock". Not so with the FM-240. You won't find another radio on the market surpassing the FM-240 in size, features or Price!

SUPER SPECIAL!

Go
"Dual Band" With
FM-240 & FM-740
UNBELIEVABLE
PACKAGE DEAL!
For A VERY Limited Time!

FM-240

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FM 240
SPD TSQ REV SCN - OFFSET + PRI
Ch9 46.760
REV SCAN OFST SPCH PRIO ENT
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the FM-240 Price and
leave your House payments
Where they are.

**Call Us!
You'll Like
The Price!**

List Price
$369.95

The FM-240 Has Sub Audible Tone Encode and Decode

The FM-740 Operates 440 Mhz. with all the fine features of it's 2-meter sister.

The FM-240(NT) model has no Sub Audible Tone Board

We offer FREE UPS Shipping
100% Guarantee on your FM-240

For Phone CODs add only $1.90
Sorry NO CREDIT CARDS

Once You see What the FM-240 Will Do. . . You'll want one!

The KDK FM-240 features:

- 25-watts of power (5-watts in Low power)
- 16 memory channels plus one priority channel
- Automatic offset programming standard and oddball.
- Easy to see Alpha-numeric LCD readout system
- Simple tuning & programming-nothing complicated
- 16-position touchtone pad mounted on speaker/mike
- Up/Down tune, and lock switches on speaker/mike
- Programmable sub-audible tone ENCODE and DECODE
- Optional Voice Synthesized module-easily plugs in
- Four modes of scan-manual, timed, stop/stay & stop/resume
- Comes with mobile bracket, speaker microphone, power cord and easy-to-read operating instructions.
- Features 90-day warranty, plus the ENCOMM exclusive 2-year Service Warranty (details upon request)
- Compact. Measures approx: 1-1/2H x 5-1/2W x 6-5/8D (inches)
- Covers 2-meter band, plus CAP and MARS

The Nation's Premier KDK & Santec Dealer!

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48th ANNUAL

GREENVILLE, S.C. HAMFEST

"The Olde Fashion Hamfest"

Saturday, May 2nd and May 3rd, 1987

American Legion Fairgrounds - Greenville, S.C.
1 Mile North of I-85 on Hwy. 25 By-Pass

Talk in 146.01 - 146.61 Alt. 146.22 - 146.82

Dealer Displays, Food, Concessions, Free Parking, Camping.
Prizes: Hourly, Door, Preregistration, Plus Sat. & Sun. Grand Prizes

For Advance Tickets, Make Checks Payable To:

Blue Ridge Amateur Radio Society, Inc.

P.O. Box 10321, Federal Station
Greenville, S.C. 29603

** SEND SASE **

TICKETS

$3.50 Advance/$5.00 @ Door

Extra Prize Tickets:
6/$5.00 13/$10.00

FLEA MARKET

Tables: $6.00 Each
Chair: $1.00 Each

Outside Tailgating
Only $1.00/Day

Dealer Inquiries Invited

Financial Report

—by Ray Adams, N4BAQ

SERA Treasurer

CVRA-SouthEastern Repeater Association, Inc.

FINANCIAL STATEMENTS

CVRA - SOUTHEASTERN REPEATER ASSOCIATION, INC.
Calendar years 1978 through 1986

Dues	$3/$8	$3/$8	$3/$8	$3/$8	$3/$8	$4/$8	$4/$8	$5/$10	$6/$15
	1978	1979	1980	1981	1982	1983	1984	1985	1986
REVENUES									
Advertising	$1,914.50	$ 2,985.75	$ 3,119.75	$ 3,745.70	$ 6,211.70	$ 7,876.75	$ 6,450.90	$ 7,434.10	$ 6,595.75
Associate membership dues	4,745.00	6,865.75	7,073.05	8,050.96	9,632.00	9,967.50	10,501.25	11,788.23	12,559.00
Full membership dues	411.00	1,102.00	1,066.00	1,960.00	1,126.00	2,757.00	1,652.00	4,242.00	4,382.25
Decals	-0-	-0-	-0-	-0-	-0-	-0-	-0-	278.50	70.50
Postage - includes HOT-P	-0-	-0-	-0-	-0-	-0-	-0-	-0-	125.50	266.50
Interest	-0-	-0-	-0-	-0-	-0-	-0-	-0-	60.82	273.18
Hats	-0-	-0-	-0-	-0-	-0-	-0-	-0-	231.50	123.37
Contributions	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	182.00
Other	-0-	-0-	79.25	16.84	344.28	16.25	54.00	82.75	83.64
TOTAL REVENUES	$7,070.50	$10,953.50	$11,338.05	$13,773.50	$17,313.98	$20,617.50	$18,658.15	$24,243.40	$24,536.19
EXPENSES									
Journal mailing	$ 610.12	$ 958.79	$ 1,410.66	$ 1,646.33	$ 1,701.46	$ 2,282.49	$ 2,698.57	$ 2,292.49	$ 3,378.48
Journal printing	4,447.58	6,767.09	8,087.13	8,333.25	12,593.20	14,369.28	15,242.26	15,620.34	12,783.43
Miscellaneous expenses	46.45	1,019.32	263.18	152.42	318.63	-0-	2.35	578.78	-0-
Directors meetings	258.99	290.99	569.22	330.61	759.41	600.51	795.59	996.50	1,428.90
Office expenses	-0-	-0-	-0-	223.31	143.07	111.58	43.13	308.80	137.87
Amortization of copy machine cost	-0-	-0-	-0-	-0-	-0-	448.00	448.00	448.00	448.00
Postage other than journal	310.11	393.93	328.17	892.34	361.24	300.17	167.86	1,238.74	387.44
Printing other than journal	498.49	877.04	691.72	595.06	801.76	1,026.68	264.74	2,011.15	186.96
Returned checks	-0-	-0-	-0-	28.25	-0-	-0-	-0-	-0-	-0-
Telephone	-0-	-0-	-0-	327.52	574.52	455.00	438.00	452.59	576.38
TOTAL EXPENSES	$6,171.74	$10,307.16	$11,350.08	$12,529.09	$17,253.29	$19,593.71	$20,100.50	$23,947.39	$19,327.46
REVENUE OVER (UNDER) EXPENSES	$ 898.76	$ 646.34	$ (12.03)	$ 1,244.41	$ 60.69	$ 1,023.79	$(1,442.35)	$ 296.01	$ 5,208.73

Expenses advanced are two imprest cash funds held by committee chairmen. Membership chairman uses funds for mailing renewal notices. Circulation manager uses funds for mailing journal. In both instances, periodic accounting, complete with receipts are forwarded to treasurer for replenishment of funds. Except for postage, the invoices for all material items, printing, etc. are sent to the treasurer for direct payment. All expenditures are fully supported by paid receipts.

Balances January 1, 1986		
Expenses advanced	$ 950.00	
Invested in copy machine	2,107.05	
Cash in bank	896.00	$ 3,953.05
EQUITY TO ACCOUNT FOR		$ 9,161.78
Less: Expenses advanced	$ 900.00	
Invested in office machines	2,571.63	3,471.63
CASH IN BANK DECEMBER 31, 1986		$ 5,690.15

Respectfully submitted,

Ray Adams

Ray Adams, N4BAQ
Treasurer

REPRESENTING COORDINATION AND UHF/VHF INTERESTS THROUGHOUT NORTH CAROLINA, SOUTH CAROLINA, VIRGINIA, TENNESSEE, WEST VIRGINIA, EAST KENTUCKY AND GEORGIA

Old Hickory Council Camporee

Camp Raven Knob, NC. Members of the Forsyth Amateur Radio Club of Winston-Salem, NC operated their amateur radio station, W4NC/Portable, at the Boy Scout Camp Raven Knob during the Old Hickory Council's annual Camporee in full view and hearing of the about 400 scouts attending the event. The camp is located in the northwest corner of Surry County, just south of the Virginia border in Piedmont North Carolina.

The W4NC/Portable operators were able to contact other amateur radio stations in Arizona, Ohio, Wisconsin, New York, Maine, Alabama, California, Texas, Canada, Bermuda, and Jamaica. Local Scouts had a chance to talk to Canadian scouts about sleeping bags rated to -60°F and try to understand English as it is spoken by fellow scouts in Bermuda and Jamaica. W4NC/Portable made contact with K2BSA, the amateur radio station at Boy Scouts of America headquarters near Dallas, Texas.

Some twenty-seven Old Hickory scouts representing twelve troops actually took the mike in hand to talk with fellow scouts by amateur radio. Several were able to communicate by "packet."

This year's JOTA was the 29th Jamboree on the Air--an annual gathering of scouts and radio amateurs including some 300,000 participants in more than 100 countries.

The station operated voice on both the 20 and 40 meter bands and packet on VHF. Operators kept W4NC/Portable on the air all day Saturday, October 18th, until well into the night. The field equipment was loaned by the Forsyth Amateur Radio Club and several FARC members.

Club members operating the station at the "Knob" included Boyce Rogers (WB4WOM), Rick Batte (N4MBI), Kraig Keyes (AA4SD), Tom Gallagher (N4IOZ), Steve Sallee (N4QG), and, on packet, Bob Gates (KG4IC) and Bob Warren (KB4NHB). Chan Sawyer (W4JCB) and Holli Nelson (KB4AKM) assisted with equipment transportation and gave moral support while involved with other camporee duties.

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Effective 1 January 1987

The Repeater Journal is a 3 column magazine with overall page dimension of 8½ x 11 inches. Our page size enables a wide variety of ad sizes from full page down to one column inch size.

Column Widths are 1 col: 2-1/4-in., 1-1/2 col: 3-1/2-in., 2 col: 4-5/8-in., 3 col: 7-1/8-in. Ad widths will be based only with the specified column widths.

DEADLINES: New advertising copy or ad changes must be in the hands of our Advertising Manager no later than the 20th of the month on the 2nd month prior to publication. We cannot guarantee insertion of ads after deadline, although every effort will be made to accomodate.

ADVERTISING DEADLINES

FEB. Issue–Dec. 20 MAY Issue–Mar. 20
AUG. Issue–June 20 NOV Issue–Sep. 20

Advertising copy MUST be mailed to:
REPEATER JOURNAL ADV. MANAGER,
SHARON WARD, 5573 Vienna-Dozier Rd.,
Pfafftown, N.C. 27040.

The CVRA REPEATER JOURNAL cannot be responsible for errors in advertising, or held accountable for equipment or accessories that do not live up to the advertised claim. We are not responsible and cannot guarantee insertion of advertising received after deadline.

CVRA REPEATER JOURNAL advertising rates apply to exact size, camera ready copy. We can provide typesetting and reduce art for your ad at our cost. Composition and typesetting for full page ad approximately $25 to $28. Half page ad from $12 to $15. Reduction of artwork for ad with no type needed is $4.50. COLOR: One additional spot color, on available color pages is available for an additional $25.00 charge per ad. FULL COLOR: Is available on the Inside Front and Inside Back covers. 100-130 Line separation negatives, right reading, emulsion down are required. No extra charge for full bleed. Due to Journal width being 1/4-in wider than national magazines, the color will bleed to outer edge, with a color stripe on inner edge of page, if separations do not fill width.

The Repeater Journal layout size is very close to most National magazines. If you wish to use a page from one of the magazines, to promote your product, we can reshoot on the camera, insert your store name and customize for your particular application. Be sure to submit a clean, unwrinkled copy of the magazine page.

Contract advertising may be billed quarterly at the request of Advertiser. No volume discounts or contract discounts are available. It is the advertisers responsibility to cancel or request changes in advertising at the time he pays his bill, or before ad deadline, otherwise, advertising will be repeated until further notice.

BUSINESS CARDS, CLASSIFIED ADS AND HAMFEST advertising must be sent accompanied by full payment for insertion. Advertisers who have not paid for previously published advertising before upcoming issue deadline, cannot have any advertising inserted until account is paid in full.

REPEATER JOURNAL ADVERTISING SIZES AND RATES

Ins. Frt. or Ins. Bk. Cover (Full Color)	8-1/2"x11"	$300.00
Full Page	7-1/8" x 9-7/8"	85.00
Full Page Bleed (any sides)	8-1/2" x 11"	100.00
2/3 Page (Vertical)	4-5/8" x 9-7/8"	65.00
1/2 Page (Horizontal)	7-1/8" x 4-3/4"	48.00
1/2 Page (Vertical)	3-1/2" x 9-7/8"	48.00
1/2 Page (Vertical 2-col)	4-5/8" x 7-1/8"	48.00
1/3 Page (Vertical Only)	2-1/4" x 9-7/8"	35.00
1/4 Page (Vertical Only)	3-1/2" x 4-3/4"	28.00
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1/6 Page (Horizontal)	4-3/4" x 2-1/4"	18.00
1/12 Page (Vertical Only)	2-1/4" x 2-1/4"	10.00
Business Cards - Standard Size	(4 Issue Contract Only)	16.00 In Advance

Classified Ads (30 Words Maximum per ad) In Advance 3.00
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Sizes listed above are width by length in that order. Ads which run lengths between sizes listed above will be billed according to column inch rate at midpoint. Prices above are for exact size, camera ready positive photoprint, or pasteup. Camera work, typesetting additional. No charge for layout.

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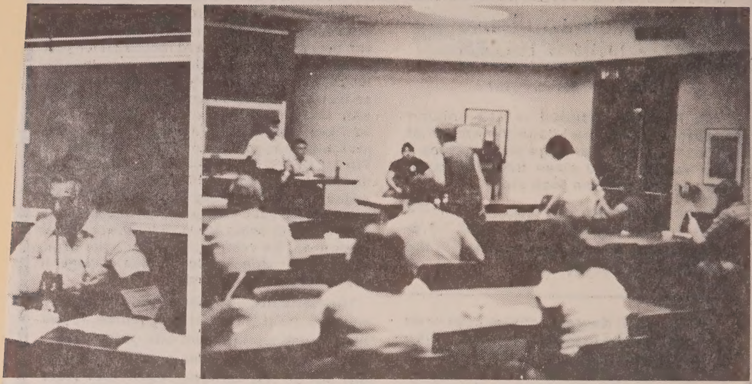
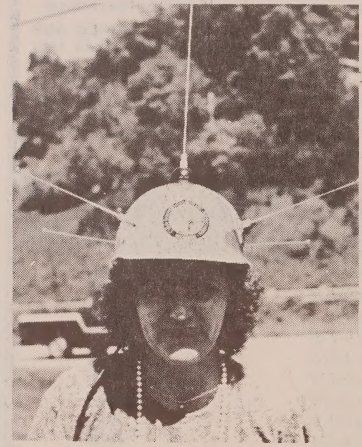


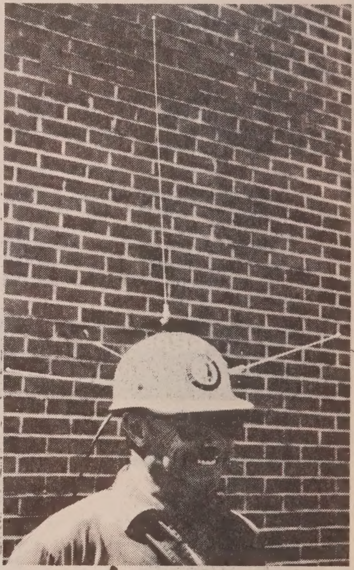
4NZ, KI4UJ and AA4QL ws persons taking the tests in the class room. 1987 exams are scheduled in March, June, September and December.

AA4NZ has a new RBBS on line in Pikeville. The BBS is operating on an IBM PC-XT clone with 20 meg hard drive. The system has several Amateur Radio files (MS-DOS, Public Domain) available for down load. The phone number is (606) 432-0879, 24 hours a day. Speed is 300/1200 Baud.



Girl-Hat Ground Plane

Now the girls are getting into the act. Mona Reeves, KE8HU tries on the Dean, K4ICN ground plane hat. We believe it looks better on Mona than Dean. Seems to radiate a slight bit more with the lady.



Boy-Hat Ground Plane

You recall perhaps, we ran a picture of Dean Lafferty of Eastern Kentucky with his 1/4-wave 2-meter hat on the May 1986 Journal Cover. Dean, K4ICN has gone a step further now. He has added radials for a good ground plane.

MAPS (Tn) Officers

New officers for the Memphis (Tn) Area Packet society are: Buddy Spiegel, KJ4KR, Secretary/Treasurer, Jim Larson, WB4KQQ, President and Harry Blabey, AI5R Technical Director.

Color Slides Needed

The Journal Staff hopes you are enjoying our new look with color on the covers of the Repeater Journal. We intend to keep it up.

If you have a colorful slide involving Amateur Radio we would love to put it in our file for future covers. Antennas, stations, Amateurs at work, any kind of interested color slides can be used. We prefer vertical slides to match the cover configuration if possible.

If you want the slide back, please indicate so with your letter describing details of the picture and we will see that it is protected and returned after we publish it. We will also be sure to give credit to you for submitting the slide.

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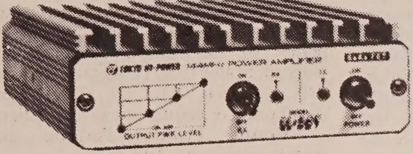

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(Mounts extra for all dual band mobile antennas)	
DF-72A 2/70 Duplexer (150W)	$44.95
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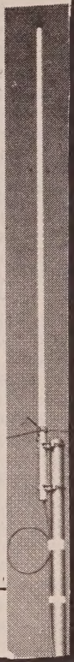

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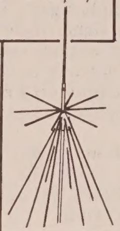

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HL-160V Lo/Hi in 160W out All Mode	$319.95
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SP-220 1.8-200 Mhz 2/20/200 W	$59.95
SP-225 1.8-200 Mhz. 5/15/150w 2-meters	$119.95
SP-230 1.8-150 Mhz. 1.5/150W Mobile	$55.95
SP-380 Mobile 1.8-500 Mhz. 2 sensors	$89.95
SP-420 140-525 Mhz. 2/20/200 SO-239	$59.95
SP-425 140-525 Mhz. 5/15/150W 2 Meters "N"	$109.95
SP-430 140-450 Mhz. 5/60W Mobile	$55.95
SP-450 140-470 Mhz. 50/300/1500W "N"	$119.95
SP-600 HF-500 Mhz. 3 sensor 20/200/2KW	$175.95

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"Florida Skip" Back In The Mailboxes

The best known regional magazine in the Florida area, 'Florida Skip" had to cease publication last year, when its Editor/Publisher Andy Clark, W4IYT suffered a stroke in May. Earlier his doctors had told Andy, as a result of the stroke, he should scale down his work to near nothing. He and helpers refunded all subscribers and advertisers prorated checks with cover letters explaining his situation at not being able to take the effort to publish "Skip".

To our delight, in November, we received a "New Florida Skip" in the mail. It was slightly smaller in page count, but still contained the wealth of information about Florida clubs and activities.

In the December issue, Andy said in his editorial column, "The response to our NEW FLORIDA SKIP issue last month was excellent. I would like to thank the hundreds who renewed their subscriptions so rapidly. This to me tells us that you missed FLORIDA SKIP and are glad we are back in business. I am glad too!"

"Once again, dear friends, many thanks for your support! We will do our best to give you a first class amateur publication." -- Andy Clark.

SERA wishes Andy and The "New Florida Skip" the best.

Tennessee QSO Party Sked March 22-23

Warm up your HF rigs and get ready for the 16th Annual Tennessee QSO Party. The event, sponsored by the Tennessee Council of Amateur Radio Clubs, and directed by the Oak Ridge ARC will be held on March 22 and 23rd.

Logs must be postmarked no later than May 1, included with an SASE, business size, for results and any certificates earned. Mail info to: Oak Ridge ARC, Attn: Mel Wardell, K4PJ, P.O. Box 489, Oak Ridge, TN 37831.

The QSO Party

Period: Saturday, March 22, 2100Z to Sunday, March 23, 0500Z and Sunday, 1400Z to 2200Z.

Exchange: Tennessee stations give a signal report and county. Out-ofState stations send signal report and state, province or country.

Suggested Freqs: CW: 1815 khz, and approx. 50 khz from bottom of each band.

Phone: 1860, 3980, 7280, 14280, 21380, 28580 khz. Novice/Tech: 3725, 7125, 21125, 28125 khz.

Scoring: 1.5 points per CW contact, 1 point for each phone contact. Combine phone and CW score, unless you wish to compete for phone-only or CW-only awards.

Multipliers: Out-of-state stations multiply QSO points by the total number of Tennessee counties worked. Tennessee stations multiply QSO points by the sum of the following worked: States (50), Tennessee counties (95), VO and VE1-7 (7). DX stations count only for points--not as multipliers.

Bonus Points: Portable and mobile operation: Add to total score a bonus of 500 points for each county you operated in outside of home county. A minimum of 10 contacts must be made in each county to qualify.

Logs: Enter Date/Time (GMT), station worked, band, mode, exchange, and score. Submit crosscheck sheets (similar to ARRL form CD77) for each band and mode over 100 contacts on a band/mode.

Awards: Special to highestscoring stations in the following categories: (1) Tennessee home station, (2) Tennessee mobile station, (3) Tennessee portable station, (4) Out-of-state station. First place certificates to highest-scoring stations in the following categories: (1) Tennessee phone-only stations (2) Tennessee CW-only stations (3) Tennessee Novice/Technician stations (4) Each State (5) Canada (6) DX entry and (7) Out-of-state Novice/Technician station. There will be Participation certificates to all stations submitting logs with at least 25 contacts.

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Why Is It?

— *by Dave Shiplett, WL7ACY*

I had more patience as a youngster. Mom could bust the yellow on my eggs, but I'd forget all about it before I left the table. The skinny girl next door could squirt me with a hose, but I'd only be mad for a minute, and I didn't even stay angry long when Fred ate my popsicle, right outta my hand. Stick and all. Fred was our dog.

But I'm older now and my patience has grown thin. The silliest little things bother me. Downtown, for example. I get upset with the non-synchronous traffic lights, drivers who aren't experts like me, shopping carts two blocks from the store, and city streets clogged with flashing signs.

As an Amateur radio operator, though, I should talk about radio related irritants. And for the lack of a better term, I'll call this my "Why is it?" list. I have a bunch, but here are a few of my favorites.

Why is it, for example, that the ones in the club who complain the most usually are those with the least to offer? "Awww geez, sure wish you had asked me sooner, I got a list of honey-dos and can't possibly help out." Or, "When did you say you needed help? Oh, yeah, I just remembered Aunt Bessie from Minneapolis will be here that Weekend —- sure glad you asked me, though!" It's been my experience that the productive and competent folks rarely, if ever, complain. They take pride in what they do and usually recognize the need before being asked.

Why is it, that there are so many different ways to get to any one destination? I've heard a newcomer drive into town and ask for assistance. After a long silence, someone finally comes to his aid. The poor chap wants to go to the local Radio Shack for that desperately-needed part, but isn't sure how to get there from here. Well, our hero tried to give directions, only to be interrupted by a few others with a better way to here from there. Where were they when he first called?? Had their hands full, was soldering a wire on the mic, sorry was up on the tower. Now we have five people trying to give directions, and our new friend has turned the rig off and stopped by the local pub or phone booth.

Why is it that when you are into a deep discussion on the nature of inter-galactic particles affecting the propagation of your newly-designed two-meter rubber duck, someone needs to use the autopatch? The call that can't wait, "Honey I'm at the store--what was it you said to pick up?" Or "I'm on the way home from work now." Some people just never seem to understand the importance of inter-galactic particles. . .

Why is it that so many people use phonetics on two-meters, or say the word "Hi" or say "We" when they should be using the singular possessive version "I"? This is Whiskey Lima Seven African Canned Yams HI HI. . . Sounds like some third world language in the clarity that only FM can deliver. Actually, for some folks it must be a sign of experience to talk that way. So what happens? Our newcomers try to imitate these respected, experienced amateurs. Seems to me an individual can be judged from afar by his/her radio image.

We could go on and on, but WE'VE already grown impatient with this. Besides, I'VE gotta get back to looking for help for OUR other projects.

Georgia News

—*Compiled by Lindsay Cleveland, W4IZI*

John Robertson, N4BGL, has put in a lot of time and effort for Georgia Repeaters. Back in 1982 he allowed himself to be talked into working with the Georgia Repeater Council frequency coordinator. Then when the decision was made at the 1985 Atlanta Hamfest for Georgia to become a District of CVRA-SERA, John was right there on the interim committee, and was still doing frequency coordination. Later, when nominations and elections were held, John was our first Vice-Director. After a few months, he was finally able to turn over the coordination task to our Director, Jim Abercrombie, N4JA. And now his request to be eventually replaced has been quickly answered. Dave Shiplett, WL7ACY, who has been our lone Assistant Director, put his name forward for the Vice-Director's office. Since this was after the nominating committee had sent in its report, Dave needed three other repeater representatives to sign his petition. One of the signers was John Robertson! And along with that petition to the Secretary was John's letter asking that his name be removed from the ballot. Therefore, since there was only one candidate for each of the offices, Jim Abercrombie and Dave Shiplett have been declared the elected Director and Vice-Director of the Georgia District. As you may surmise, John is quite happy about Dave volunteering to take the position. John has found that his work and family demands are taking all of his time, and he did not want CVRA-SERA to be short-changed. However, John has said that he will always be a strong supporter of CVRA-SERA.

• • • •

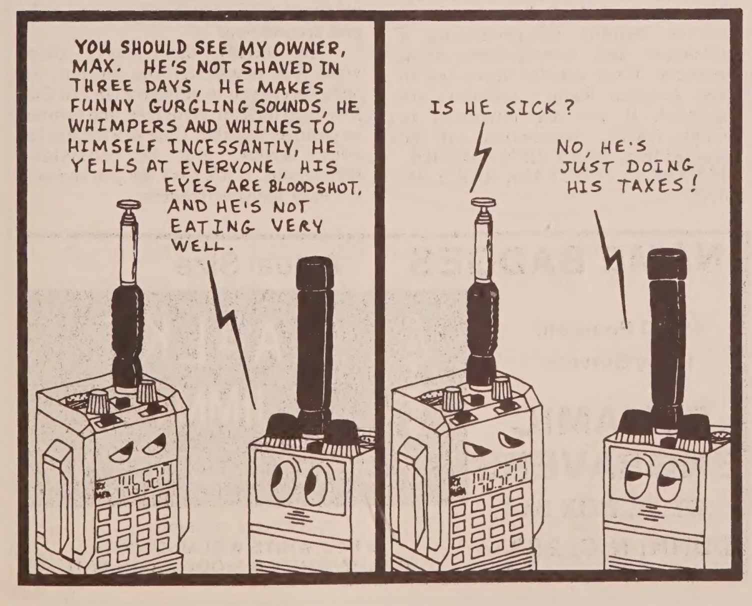
Our Georgia Director, Jim Abercrombie, N4JA, has found two more folks to help him keep up with the activities around the State, and to provide local contact for CVRA-SERA members. Our new Assistant Directors are Larry Smith, N4FD, located in Albany, and Jack Berry, W4PME, who is in Atlanta. With the addition of these two officers, Georgia is well covered geographically. Their addresses and telephone numbers are on the back cover of the *Repeater Journal.*

FROM THE MOUNTAINS

DALTON: The Dalton A.R.C. has come up with an interesting approach in teaching their novice classes. Rather than the usual method of one instructor teaching the theory, they are using different instructors for different phases, each in his own special field of expertise. Besides spreading the teaching load so that no one person has all the work, it also has a side benefit of allow-

Continued on Page 43

Stubby *by Fred Hurteau, WD4SKH*


YOU SHOULD SEE MY OWNER, MAX. HE'S NOT SHAVED IN THREE DAYS, HE MAKES FUNNY GURGLING SOUNDS, HE WHIMPERS AND WHINES TO HIMSELF INCESSANTLY, HE YELLS AT EVERYONE, HIS EYES ARE BLOODSHOT, AND HE'S NOT EATING VERY WELL.
146.520
IS HE SICK?
NO, HE'S JUST DOING HIS TAXES!
146.520

Sources of News For The Club Newsletter

— by Wayne C. Williams, K4MOB

We receive approximately 30 different newsletters, Bulletins and other club newspapers per month. Many are well written, and contain much interesting information. Many are using what we in the publication field call "fillers". These fillers are clipped from other publications, copies from special news bulletins and other sources available.

An Editor's job on a club newsletter is a thankless one. Everyone in the club is quick to heap praise on the individual, saying, "you're doing a great job... keep it up!" This of course is mainly what they want. If you keep it up, no one else will have to take the job.

There are always dissenters in the club, who never agree with what the editor has to write, or "editorialize". When editorializing, an editor should be cautious, and be sure he has the facts before taking a stand. Never write an editorial while upset or mad about the subject to be covered. Many Editors have been "trapped" when they print a view written in the heat of an argument.

An Editor has the right to say what he pleases in his newsletter, after all, he is the Editor. But the individual should be cautious. Never get drawn into a battle between opposing forces within a club. The club newsletter is no place to air "dirty laundry". It should be worked out behind closed doors in the club room, with all parties present. It should be noted that when an editor makes a stand, he is speaking for himself and not necessarily representing the views of any portion of the club membership. The editor should be careful to editorialize only where he indicates his article is an editorial, otherwise, the story should be factual and informative with no definite stand on the part of the individual author.

Sources of News

An editor has an abundance of news available, all around him. Club members are very hard to draw stories from. "They just don't have the time." (That's why you're editor!)

Printing the minutes of the last meeting is always informative, especially to the many club members who seem to miss a lot of meetings. (They were tied up that night). Other interesting news among the club members includes: Births, Birthdays, Weddings, Engagements, Anniversaries, Deaths, trips involving members.

News about the club repeater, updates, new antennas, new controllers, a story from the repeater committee on repeater activity; and news about the local net is always good reading. Field Day activities, special events, and other club involvements can always run a couple of months in the newsletter. First, the announcement about the event, then later, news about what happened at the event.

News about other local repeaters, their owners, their operators makes good reading and keeps club members informed with what's going on around the area.

Editors should keep one thing in mind. People like to see their names and callsigns in print. Stories of local interest with names and callsigns always grab the attention of club readers.

If your club is one that sponsors a hamfest, you can have much information in your newsletter about the show, before and after.

There are other sources of "National" type Amateur news that is always informative to the club reader, but the editor should be careful and not "overuse" this type information. A blend of local news and National news works well. All national gets kind of bland after a few issues, and shows the membership that someone isn't getting the local news out about the club that should be done.

One organization every Club Newsletter editor should belong is the "Amateur Radio News Service." Don't let the name fool you. ARNS is not a sheet which gives you "freebies" to print. ARNS is an organization of editors and publishers of Amateur Radio newsletters and members engaged in Public Relations. A publication called the "Bulletin" is published monthly. The contents of the Bulletin consist of articles helpful in producing a newsletter and contributions from members. Many articles appearing in other Amateur Radio newsletters are reprinted. If you are interested in joining ARNS, information can be obtained from: LEE KNIRKO, W9MOL, 833 PARK PLAINE, PARK RIDGE, IL. 60068.

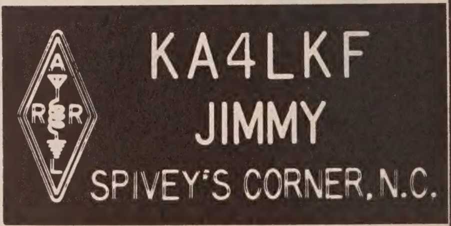
There are also a variety of biweekly news reports which may be subscribed to. (1) "The ARRL Letter". Subscriptions, limited to ARRL members are $19.50 per year for First Class Mailing. Write: ARRL LETTER, 225 MAIN STREET, NEWINGTON, CT. 06111. (2) "W5YI Report". Subscription for First Class mail is $21.00 per year. Write: W5YI REPORT, P.O. BOX 10101, DALLAS, TX. 75207. (3) "Westlink Report". Subscription by First Class Mail is $22.50 per year. Write: THE WESTLINK REPORT, 28221 STANLEY CT., CANYON COUNTRY, CA. 91351.

All of these news reports are very good and contain much valuable information about the happenings of Amateur Radio, the FCC and ARRL. Editors will find a wealth of news items to use in their newsletters. Unfortunately all three of them publish the first and third weeks of the month, so the news all comes in at once, and you run high and dry for a week or so until they all come out again.

Editors of Club newsletters will learn that it doesn't help a bit to "beg" for articles from the membership. They never come. If you want to keep the job as editor, show the club you can put out an interesting newsletter without their help. Later you'll find that some of the members might volunteer to supply you with news whenever they can obtain some. So the best course is to go on your own, write your newsletter with all the news you can obtain, and grab all that is voluntarily provided you. Begging for news doesn't help a bit. With a little practice and help from the outside, you can become an "independent" editor, capable of keeping your club totally informed as to what is happening locally and around you.

And finally, don't worry about what type newsletter you put out. No one expects you to publish a QST or CQ. Just keep it clean, error free, and printed as clean as possible. Choose a format for your layout, and be consistent throughout. If it's easy for you to read, it's easy for your readers.

NAME BADGES Actual Size



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Call us for a quotation, WE WILL SAVE YOU MONEY!!!!!!!

DO NOT WRITE ABOVE THIS LINE

CVRA-SouthEastern Repeater Association, Inc.

FULL REPEATER MEMBERSHIP APPLICATION FOR YEAR ________________

City/Mtn (Max 14 Char)	Callsign	Input Freq.	Output Freq.	
				No. 1
				No. 2
				No. 3
				No. 4

Name two Full Member Representatives to CVRA-SERA (ONLY These Two Persons Receive A Journal)

Name ____________________ Call __________	Name ____________________ Call __________
Address ______________________________	Address ______________________________
City ______________ State ______ Zip _____	City ______________ State ______ Zip _____
Phone: ( ) ____________________	Phone: ( ) ____________________
ARRL Member ( ) Yes ( ) No	ARRL Member ( ) Yes ( ) No

Membership: New______ Renewal______ Fee Enclosed (   ) Yes   (   ) No Amount:______________

Repeater Sponsor ____ Date ______________

FULL MEMBERS OF 1986 COMPLETE ONLY TOP PORTION - OTHERS FILL OUT APPLICATION COMPLETE.

Date Rptr. Placed in Service: Experimentally ________________ Reg. Svc. ______________

Was your freq coord? (   ) Yes   (   ) No   (If No, please explain) ______________________

ACTUAL REPEATER LOCATION: (Mtn./City)____

Repeater Coverage: (Cities & Counties)

BASE: ____

MOBILE: ____

Transmitter ______________ Receiver ______________ Duplexer ______________

Antenna ______________ Duplexed: (   ) Yes   (   ) No   Split Site: (   ) Yes   (   ) No

Split Site Linkage type ______________ (If Radio, Frequency used) ______________

Linked with any other repeaters: (   ) Yes   (   ) No   Linking Freq. ______________

Name (if any) other repeaters linked____

ANTENNA: Height above MSL ______________ Height AAT ______________ Power (ERP) ________

REPEATER: Open____ Closed____ AUTOPATCH: Open (A)______ Private (PA)______ Emerg. (EA)______

If closed, Access is: Tone Burst__________ Hz, Touchtone__________ Buttons

Repeater I.D. is: CW______ Voice______ Rptr. control via: ______________________

Other information____

Repeater Membership Fees:
All Memberships Expire Dec. 31

$15.00 annually - payable Jan. 1

Mail Application & Check To:

SERA REPEATER MEMBERSHIP
POST OFFICE BOX 24292
WINSTON-SALEM, N.C. 27114-4292

Thank you!

If you were a 1986 Full Member, complete only the portion of this form above the dotted line. If you are a new member, or are renewing since 1985, complete the entire form. Use an additional sheet if more space is needed-To avoid delays or mistakes fill out the Full Membership application as applicable to you, as accurately as possible.

Full Memberships Dip In Early Returns

— by Gerry Butts, KB4SEL
Full Membership Chrmn.

Apparently the new way of allowing repeater owners to renew from the Journal isn't working quite as well as had hoped. A full Membership application was inserted in the November Journal for renewal, instead of mailing out individual renewal applications for the first time. Owners only had to fill out the top portion of the application if they were 1986 members, but the overall response was less than had been hoped for.

Using out measurement date of January 14, 1987, compared with January 19, 1986, we had 18 fewer repeaters renew across CVRA-SERA territory, dropping overall percentage of full membership from 38% in 1986 to 33% in the same period of 1987. As of this report, a total of 356 repeaters have joined or renewed for 1987. We ended 1986 with a total of 598 full member repeaters. So you can see, we still have a long way to go. In addition, we have in excess of 1,000 repeaters in the territory compared with 930 at this time last year, which will hopefully account for more new members in 1987.

The Scoreboard

North Carolina, our largest State of repeaters topped the list again in numbers of repeaters renewed in the early stages with 88, compared to 114 last year. Eastern Kentucky lead in percentage with 47% renewed or joined, or 14 repeaters out of 30 in the District.

Regaining second place in repeaters was Virginia with 74, followed by Georgia with 65, Tennessee 38, West Virginia, 29, South Carolina 26 and East Kentucky 14. Outside our District, we have 4 repeaters in Alabama who have renewed.

Please see the chart below which gives a breakdown of the final membership repeater totals for each state since 1983. The 1987 total represents those in by January 14th. They next column represents the percentage of the State's repeaters who are presently full members.

The final two columns represent ALL the repeaters in the State and total number of Current 1987 applications filed.

Repeater owners are urged to clip the Full Membership renewal application in this issue of the Journal (or the November 1986 Journal) and fill it out as appropriate and submit with the $15.00 Full Membership fee to assure getting your repeater listed as a CVRA-SERA supporter before the May issue. Deadline for getting new or renewals listed for May issue will be around April 15th, when we have to close down changes and process the index for printing in the Journal. All full member repeaters are identified with a "star" beside their listing in the repeater index.

CVRA-SERA FULL MEMBERSHIP FROM 1983 TO DATE. CORR 1-14-87
THRU '87 APPL. # 216

	REPEATER							
STATE	FINAL 1983	FINAL 1984	FINAL 1985	FINAL 1986	CURR. 1987	'87% TTL	ALL RPTR	CURR APPL
N.C.	100	83	149	147	88	42%	211	62
S.C.	24	35	56	43	26	32%	82	18
VA.*	58	60	92	88	74	43%	172	38
W.VA.	28	21	41	40	29	32%	90	17
TENN.	47	58	85	63	38	18%	209	25
GA.**	9	18	109	125	65	33%	196	40
E.KY***	1	4	18	21	14	45%	31	13
ALA.****	1	1	4	67	4	--	--	3
FLA.****	--	--	--	4	--	--	--	0
TOTALS	268	280	554	598	338	34%	991	216.00

* TTL.VA.RPTRS.ALSO INCLUDE N.VA. - T-MARC TERRITORY)
**GA.ASSUMED DISTRICT STATUS IN 3rd QTR.OF 1985.
***K.KY.ASSUMED DISTRICT STATUS IN MID 1985.
****ALA.& FLA. NOT SERA DISTRICTS.
1987 % OF SERA FULL MBR DOES NOT INCL. ALA & FLA. --ONLY OUR 7 DISTRICTS

Georgia News

Continued from Page 39

ing the students to get to know more of the club members. Something for us all to think about.

TO THE PLAINS

WARNER-ROBINS/MACON: The Central Georgia A.R.C. Newsletter continues to run a CVRA-SERA Associate Membership application in each issue, and those applications are coming in. Another form they sometimes print is the ARRL Amateur Radio Emergency Service (A.R.E.S.) registration form. With all of the community service activities they have worked on this past year, they have truly exemplified the "public service" side of Amateur Radio.

Hampton Assumes Role Of Technical Advisor

Danny Hampton, K4ITL, retired as an Assistant Director and immediately assumed the role of SERA Technical Advisor. The announcement was made by President Carter Cogle on January 1st.

"Danny is now accepting formal recognition for a job that he has been doing for a lot of people all along," Carter said.

In the North Carolina area, there are many repeater owners who owe the success and good operation of their machine to Danny. It seems he is always willing to assist and advise people who have problems getting their repeater to operate right.

Now, Danny, as SERA Technical Advisor is available for the entire 7 State area. His expertise in repeater construction goes back many years and dozens of machines. You will find his address and phone number on page 2 in the Journal.

We are fortunate to have someone the calibre of Danny to hang in with us on the Board of SERA. We need good people like him, and try very hard not to let them get away. (Editor)

New P.O. Box

The new address is: CVRA-SERA MEMBERSHIP, POST OFFICE BOX 24292, WINSTON-SALEM, NORTH CAROLINA 27114-4292.

Requests for Frequency Coordination, complaints or interference reports should still be sent to your individual Director.

CVRA-SERA TERRITORY REPEATER GROWTH BY STATE (DISTRICT) BY BANDSINCE 1984. (CORRECT AS OF 1-14-87)

	10-METERS				6-METERS				2-METERS				220-MHZ				440-MHZ				DIGIPETERS*				TOTALS 7 STATES.			
DIST	'84	'85	'86	'87	'84	'85	'86	'87	'84	'85	'86	'87	'84	'85	'86	'87	'84	'85	'86	'87	'84	'85	'86	'87	'84	'85	'86	'87
NC	0	2	3	2	9	9	9	10	133	143	144	140	24	25	28	27	14	25	36	32	0	0	6	8	180	204	220	211
SC	0	0	0	0	3	2	3	3	60	62	63	65	4	8	5	5	5	9	12	9	0	0	3	8	72	81	83	82
TN	2	1	2	2	6	6	7	10	137	139	133	138	14	14	14	16	29	31	35	43	0	0	5	7	158	191	191	209
VA	1	3	2	2	15	14	12	13	104	111	108	111	7	10	10	10	25	37	36	36	0	0	4	23	152	175	168	172
WV	0	0	0	0	0	1	6	6	57	64	71	71	2	2	2	3	3	3	5	10	0	0	2	5	62	70	84	90
EKY	-	-	0	0	-	-	0	1	-	-	22	25	-	-	2	4	-	-	1	1	-	-	0	1	--	--	25	31
GA.	-	-	2	4	-	-	3	3	-	-	142	138	-	-	12	16	-	-	25	35	-	-	19	26	--	--	184	196
TTLS	3	6	9	10	33	32	40	46	491	519	683	688	51	59	73	81	76	105	150	166	0	0	39	78	624	721	955	991

* PACKET DIGIPETERS WERE NOT COUNTED UNTIL 1986.DIGIPETERS ARE NOT COUNTED IN TOTAL # OF REPEATERS FOR ANY STATE.
* E.KENTUCKY AND GEORGIA NOT COUNTED UNTIL 1986.

Plateau Amateur Radio Association
9 TH ANNUAL
FAYETTEVILLE, WV
HAMFEST

Hot Food Refreshments

Sunday Febuary 22, 1987 Time: 9:00 a.m.-4:00 p.m.

Fayetteville High School

Take Laurel Creek Road, Exit East about Two Blocks off RT 19

Registration $3.00 Flea Market Tables $3.00

Major Commercial Exhibitors

1 st prize	2 Meter KDK Mobile Transceiver
2 nd prize	Ham IV Beam Rotor
3 rd prize	Ham Station Clock
Special prize	**VHS Video Recorder (SHARP)**
need not present to win	hourly drawings for additional prizes

ARRL Approved **ARRL Materials Available**

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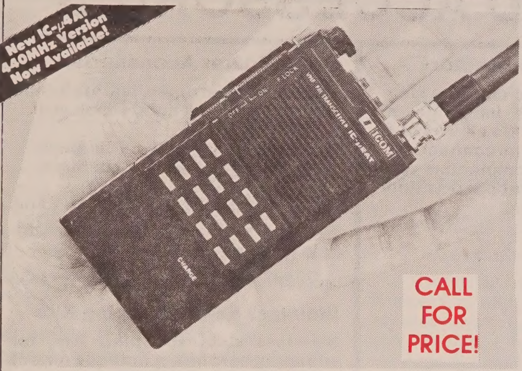

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ONLY ICOM COULD BUILD IT!

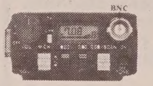
A new micro-sized 2-meter handheld with all the performance and reliability you've come to expect from an ICOM!

The IC-μ2AT. A breakthrough that ends every amateur radio operator's quest for that one true, go-anywhere 2-meter handheld.

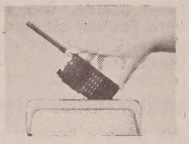
Miniaturization. The Micro gives you all the advantages and performance of a larger handheld, in a package so small, so refined, so well built that only ICOM could build it.

Measuring only 4.6" high by 2.3" wide, by 1.1" deep, the Micro fits in your pocket or purse as easily as a cassette tape. This miniaturization doesn't compromise ICOM quality. It's exactly what you'd expect from ICOM: high performance in a micro package.

Full Featured. And ICOM hasn't compromised features for size. The IC-μ2AT DTMF version includes ten programmable memories, odd offset capability, an LCD readout on the top panel for easy readability, up to three watts of output (optional), 32 built-in subaudible tones AND wideband receive coverage from 138 to 162.995MHz in 5kHz steps for MARS/CAP operation and weather broadcasts. There's also a simple to use digital **TouchStep Tuning System** for fast shirt-pocket frequency adjustments. An IC-μ2A version is also available without DTMF and PL tones



Accessories. The Micro utilizes most existing ICOM handheld accessories plus it hosts a new line of battery packs, long life to alkaline battery cases.



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We now carry a complete Supply of ICOM Radios
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ON THE ROAD FOR LESS

- **Compact Size**
- **Simple to Operate**
- **Large LCD Readout**
- **25 or 45 Watts**
- **Packet Compatible**
- **21 Memory Channels**

The IC-28H has all the features you need for carefree 2-meter mobile operation. The only thing it doesn't have is a big price.

45 Watts. The IC-28H provides a full 45 watts of powerful output. The **IC-28A** 25-watt version is also available. Both units have a selectable low power.

Large LCD readout. A wide-view LCD readout can be easily read even in bright sunlight. An automatic dimmer circuit reduces the brightness for evening operation.

Wideband Coverage. The IC-28H performs from 138–174MHz (specifications guaranteed from 144.00–148MHz). Ideal for MARS and CAP operation.

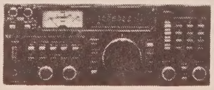
Compact Size. The IC-28H measures only 2 inches high by 5½ inches wide by 7¼ inches deep (IC-28A is 5¼ inches deep). Great for mobile installations where space is limited.

21 Memory Channels. To store your favorite frequencies, 21 memory channels are provided. All memories are backed up with a lithium battery.

Scanning. Scan the entire band or the memory channels from the provided HM-12 mic.

Easy to Operate. With only 12 front panel controls, the IC-28H is simple to operate.

Available Options. IC-HM14 DTMF mic, PS-45 13.8V 8A power supply, UT-29 tone squelch unit, SP-10 external speaker, HM-16 speaker mic and HS-15/HS-15SB flexible mic and PTT switchbox.



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Rohn 25-G Straight Sections

In addition to a large stock of straight tower sections, we also have flat and sleeved top sections, trust bearings, house brackets, short base sections, rotor plates, guy assemblies, guy wire, cable clamps, turnbuckles – you will need for a complete tower installation.

Utility Poles & Hardware

We have a limited variety of utility pole hardware and can supply utility poles in the Greensboro, N.C. area.

Scotchkote Electrical Coating

Made by 3-M Co. Can be used for underwater connections also. A 15 oz. can will do 50 to 100 connections.

15-oz. can Scotchkote coating	$8.00

WEST ANTENNA SERVICE HAS ROPE

ALL TYPES OF ROPE AVAILABLE

SIZES FROM NO. 4 TO 1-INCH

Call for Prices on Sizes and Types

West Antenna has a huge inventory of all types of synthetic rope in all sizes to fit your every need. Write or call for a free rope catalog. Large or small, your rope requirements can be met by us.

Some Types we Stock:

- **Unmanila – looks like manila . . . feels like manila . . . but it's not, it is a new polypropylene fibre**
- **Polypropylene – 3 strand twisted . . . a first class 3-strand twisted 100% mono filament polypropylene rope, twice as strong as manila.**
- **Mariner . . Diamond Braid Polypropylene rope, 8 strands, a real work horse. Easy to splice resistant to damage by rot, abrasion, oil grease.**
- **Twisted Nylon rope . . . regular 3-strand, medium lay nylon rope, the strongest rope in general use today. Will stand sudden shock.**
- **Solid braided Nylon Cord . . . very strong, soft lightweight, resistant to rot, abrasion, mildew, with shock absorbing elasticity.**

Plus many more kinds and sizes and strengths

Check These Rope Specials:

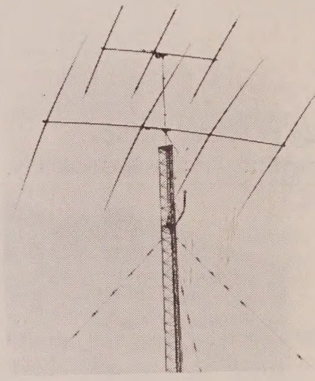
BLACK TWISTED POLYPROPHELENE

Good for dipoles or overhead supports on beams at a very low cost. Lasts two or three times longer in the sun than regular poly rope.

1/4-inch	4-cents/foot
600-foot spool	16.88
1,000-foot spool	26.88
3/8-inch	8-cents/foot
600-foot spool	37.50

Hard Line and Connectors

West Antenna Service can also supply 1/2 and 7/8-inch hard line in aluminum or copper. We also have a limited stock of hard line connectors. If we do not have the connectors you need, they can be supplied within approximately 10 days.



BATTERY TAPS

Assembly provides connection to battery cable on the new side-terminal batteries, or any connection situation where terminals are not accessable. Slips over cable and set screw penetrates jacket for contact. Radio wire slipped into hole and second set screw tightens. Has proven quite adequate for high current needs.

Battery Taps	4.95 ea.

POLYPHASER Lightning Suppressers

High quality commercial units. Low loss, low noise. Frequency range through 1 Ghz. Bulkhead and inline types available, including rotor cable and D.C. control lines. Call for prices.

2-way shops are urged to check for Dealer Pricing.

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PL-259 CONNECTORS (U.S. Made)	65¢ ea.
10 or more	60¢ ea.
UG-175 or 176 ADAPTERS	30¢ ea.
10 or more	25¢ ea.

Other Tower Accessories

Aluminum mast pipes, feature 2-inch OD 6061 tubing with 1/4-inch wall.

12-foot lengths, 19 lbs. - In Stock
24-foot lengths, 38 lbs. - In Stock

Touch rust spots on your tower and antenna bolts with RUSTOLEUM, cold galvanizing.

Large 20-oz. Industrial spray can	$6.00

Stainless Steel Strapping Kits

Stainless steel strapping kits, for strapping hard line or multiple runs of Coax. Kits come with 25, 50 or 100-feet of stainless steel strapping and buckles.

25-foot strapping kit	$18.00
50-foot strapping kit	$25.00
100-foot strapping kit	$36.00

FOR THE ULTIMATE MOBILE INSTALLATION

We have what you need — wire, fuse blocks, fuses, connectors, relays! You want your Mobile Low band or amplifier installation to work efficiently. We have the proper wire, fusing and parts needed for a perfect installation.

WIRE – Single Conductor-Stranded,
red or black vinyl insulation . .

#10 wire	30¢ per foot
#14 wire	20¢ per foot

FUSE BLOCKS – Our fuse blocks are rugged holding fuses much larger than the little 3AG glass type. This prevents overheating and voltage loss with high currents. Set screws in end of fuse blocks will accept wire up to #6.

30-Amp Fuse Block	$4.95
60-Amp Fuse Block	$5.95

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—FCC Okays Novice Enhancement—

— by Wayne C. Williams, Editor

Stop The Press!!

A REPEATER JOURNAL SPECIAL REPORT

WASHINGTON, DC. Jan. 30. . . Ray Kowalski, Chief of the Personal Radio Bureau, told the Repeater Journal in an interview by phone that the Commission in their meeting January 28th had adopted a Report and Order in PR Docket 86-161, Novice Enhancement.

"We need to be careful from the beginning", Kowalski said, "The approved docket does not follow exactly one for one with the proposals which were set forth."

He said that Novices will be given ALL mode privileges in the Amateur Subbands of 220 mhz and 1296 mhz. In 10 meters, they will be given J3E, A1A and F1B (CW, RTTY, SSB) in the sub band portion.

Kowalski said an effective date has not been set for the new Novice Privileges, but one will be forthcoming soon.

He also said that the Technical & General Examination Element 3 will be changed to 3A and 3B to allow Technicians and Generals to be examined more closely associated with the bands in which they use. He said the Novice examination will have some additional questions and procedures to be spelled out later.

When asked if there would be a delay for Novices on the 220 band, since its future is tied up in the Science and Technology Division of the FCC, Kowalski said that Novices could operate 220 just like the other new band privileges on the effective date, with no delays on that particular band.

According to the ARRL, even though the Commission didn't spell out full details of the new Novice Enhancement Program, there will probably be some power limitations for the Novices.

Since we were holding the printer up on this final section of the Journal, we were unable to get further details for this issue.

Amateurs are cautioned to obtain copies of the new Novice Enhancement Program and understand before making any hasty decisions as to frequencies, bands and power. Reminding also that the effective date has not been announced.

The FCC had planned to release the Novice Enhancement docket before the end of the year. Later it was announced "in January", then everyone backed off and said, "Maybe by Dayton". The announcement came as a complete surprise, but much to everyones delight.

Background

In late 1985, the ARRL proposed sweeping changes in the FCC rules to give more privileges to the Novice Class operator. The FCC assigned the proposal Docket #86-161 in April of 1986. The Novice of Proposed Rulemaking had a comment period until July 16th and reply comments due by August 20th, 1986.

The League noted the importance of making the Novice license more attractive as an entry level into Amateur Radio.

"To attract young people who are interested in computers and digital communications into Amateur Radio, we must offer them digital privileges. Adding RTTY and Packet radio privileges on 10 meters will accomplish this," the ARRL said.

The granting of increased frequencies to Novices was the one way to induce more Novices into the Amateur Ranks, and create a desire to upgrade to higher class licenses.

Repeater Coordination Kowalski Responds

—adapted from The ARRL Letter

A question from an individual in the Kansas City area to the FCC concerning repeater coordination was answered by Ray Kowalski, Chief of the Special Services Division of the Private Radio Bureau.

Kowalski said, "The FCC intends to rely upon state and regional councils to recognize legitimate local coordinators. The FCC will support their determinations. Revocation of regional and state council recognition of another local coordinator is PRIMA FACIE evidence that the coordinator no longer has the support of a majority of those eligible to establish repeaters in the area it claims to coordinate."

Kowalski continued, "Stations which operate with illegitimate repeater coordination, do so at their peril."

The FCC further stated that "two active coordinators in the same large metropolitan area which do not take each other's coordinations into account may soon cause repeaters in the area to experience interference. And it is the licensees of these repeaters--not the coordinators--who risk sanctions if interference occurs."

(Editor's note: From what we gather here, it would pay repeater owners in CVRA-SERA territory to check and see for sure that the person who actually coordinated their frequency was legitimate. Several years ago, there was some outside confusion as to who was, and who wasn't a coordinator. Some repeater owners have even stated that the ARRL or an ARRL official coordinated their frequency. They are the ones who might want to contact their SERA State Director. The ARRL, nor any of their elected officials or appointees have ever had coordination authority.)

Did You Know!

The Amateurs of North Carolina represent 19% of all the licensed Amateurs in CVRA-SERA territory (7-States). North Carolina represents over 40% of the Full and Associate Membership of CVRA-SERA, far exceeding any other District.

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Coming Events

SERA REPEATER JOURNAL CALENDAR OF EVENTS

FEBRUARY 1987

6-8	Hamfest, MIAMI, FL
15	Winter Hamfest, ELKIN, NC
22	9th Annual Hamfest, Fayetteville, WV
22	Winterfest, VIENNA, VA

MARCH 1987

7	Hamfest, FT. MYERS, FL.
7	Hamfest, MORRISTOWN, TN
7	Hamfest, DALTON, GA
7	Hamfest, MAMMOTH CITY, KY
13-14-15	Hamcation, ORLANDO, FL
21-22	Roa. Div. ARRL Conv., CHARLOTTE, NC
21-22	Swapfest, FT. WALTON BEA., FL
22	23 TENNESSEE QSO PARTY, (HF BANDS)

APRIL 1987

5	Hamfest/Computer Show, CHARLESTON, WV
5	Hamfest, CHARLESTON, SC
12	15th Annual RARS Hamfest, RALEIGH, NC
12	Hamfest, OAK RIDGE, TN
12	Tn. Council AR Clubs Meet, OAK RIDGE, TN
12	Hamfest, MORRISTOWN, TN
24-25-26	Hamvention, DAYTON, OH

MAY 1987

2-3	48th Annual Hamfest, GREENVILLE, SC
16-17	Hamfest, BIRMINGHAM, AL
16-17	ARRL Roanoke Vid. LPM Meet, ROANOKE, VA
16-17*	Hamfest, TOCCOA, GA
17	Hamfest, BLUEFIELD, WV
23*	DFMA Hamfest, DURHAM, NC
23-24	Hamfest, KNOXVILLE, TN
24	Hamfest, ROANOKE, VA

JUNE 1987

6*	Hamfest, ROSSVILLE, GA
6*	John Ross Hamfest, FT. OGLETHROPE, GA
7*	Hamfest, HUMBOLT, TN
7	Hamfest, MANASSAS, VA
7*	Hamfest, MUNCIE, IN
13-14	Hamfest, ALBANY, GA

JULY 1987

10-11-12	ARRL Nat'l. Conv., ATLANTA, GA
18	Summer Swapfest, CARY, NC
19	TSRAC Hamfest, WHEELING, WV
25-26*	WCARS Hamfest, ASHEVILLE, NC
25-26	WV State ARRL Conv. JACKSON'S MILL, WV
26	BRATS Hamfest, W. FRIENDSHIP, MD

AUGUST1987

1-2	Hamfest, ASHEVILLE, NC
2	Winchester Hamfest, BERRYVILLE, VA
8-9*	Hamfest, JACKSONVILLE, FL
8*	Jax County Hamfest, COTTAGEVILLE, WV
9*	Hamfest, LEXINGTON, KY
15-16*	Hamfest, HUNTSVILLE, AL
22-23	Hamfest, MADISON, GA
23*	Hamfest, GAITHERSBURG, MD
30	Hamfest, CEDARS OF LEBANON, TN

SEPTEMBER 1987

5-6	Hamfest, SHELBY, NC
27	Hamfest, Lanierland ARC, GAINESVILLE, GA

OCTOBER

3-4	VA State ARRL Conv., VIRGINIA BEACH, VA
4	Hamfest, ROCK HILL, SC
4	Hamfest, ROME, GA
10-11	Hamfest, MEMPHIS, TN
10-11	Central Ga. Hamfest, WARNER ROBBINS, GA
11*	3rd Annual Techfest, RICHMOND, VA
11*	Hamfest, MAYSVILLE, NC
17*	Tri-Cities Hamfest, GRAY, TN
24-25*	Central Alabama Hamfest, MONTGOMERY, AL
24-25	Hamfest, CHATTANOOGA, TN
25*	New River Valley Hamfest, DUBLIN, VA
31-Nov. 1	Ham Radio/Comp. Expo '87, LAWRENCEVILLE, GA

NOVEMBER 1987

7*	Hamfest, CONCORD, NC
21-22*	Hamfest, GREENSBORO, NC

PLEASE NOTE: Hamfests marked with an Asterisk have NOT been confirmed. They are simply based on last years date. DEADLINE for Calendar Corrections to the Upcoming MAY Journal, is April 1st. Write the Editor. DEADLINE for MAY Journal Hamfest advertising is MARCH 20th for Confirmation of ad, APRIL 1, for Camera Ready Copy. Send advertising copy to our Advertising Manager.

According to the FCC:

Amateurs themselves make the determination as to who is the rightful Coordinator in any given area. This is the way we (the FCC) can tell who the coordinators are. All Amateurs, Technician Class and above - who are claimed to be coordinated by a particular coordinator.

CVRA-SERA has been in Coordinating since 1971 in some areas. You OWE it to YOURSELF and CVRA-SERA to firmly establish our organization as Official Coordinators for the 7 State Territory. Your support in the form of MEMBERSHIP is a VOTE for CVRA-SERA. We NEED your support. If you are a member reading this, find friends who are NOT MEMBERS and get them to support YOUR Coordinating Organization - CVRA-SERA has been here for years. We plan to stay - with YOUR support!

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Elkin Hamfest (NC)	**15**
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Greenville Hamfest (SC)	**32**
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MarVista Motel (SC)	**13**
Raleigh Hamfest (NC)	**4-5**
Repeater-Club-Net Service Page	**18**
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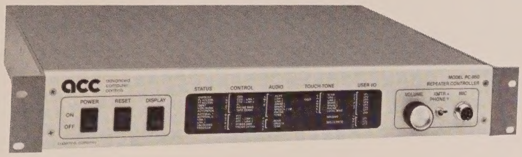

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- Informative remotely programmable ID's (17), tail messages (13), bulletin boards (5)
- 16 channel voice response analog metering, automatic storage of min/max values on each channel, values may be read back on command or may be included in any programmable messages
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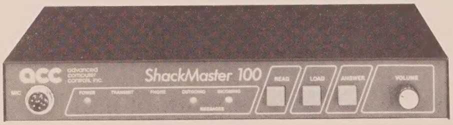

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